

IN THE CHANCERY COURT OF JACKSON COUNTY,
MISSISSIPPI

MIKE MOORE; ATTORNEY GENERAL,
EX REL; THE STATE OF MISSISSIPPI

PLAINTIFFS

v.

NO. 94-1429

AMERICAN TOBACCO COMPANY LIGGETT &
MYERS, INC.; LIGGETT GROUP, INC.;
CORR-WILLIAMS TOBACCO COMPANY;
LAUREL CIGAR & TOBACCO COMPANY;
LONG WHOLESALE; WIGLEY & CULP;
R.J. REYNOLDS TOBACCO COMPANY;
RJR NABISCO, INC.; LEWIS BEAR
COMPANY; BROWN AND WILLIAMSON
TOBACCO CO.; GENERIC PRODUCTS
CORP.; HILL AND KNOWLTON, INC.;
LORILLARD TOBACCO COMPANY; LOEWS
CORPORATION; BATUS, INC.; MS
MANUFACTURERS ASSOCIATION

DEFENDANTS

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DEPOSITION OF MARY CURRIER, M.D.

Taken at the instance of the Defendants at
Brunini, Grantham, Grower & Hewes, 1400 Trustmark
Building, Jackson, Mississippi, on November 12,
1996, beginning at 9:00 a.m.

APPEARANCES:

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COPY

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1 MARY CURRIER, M.D.,

2 having been first duly sworn, was
3 examined and testified as follows:

4 EXAMINATION

5 BY MR. BIERSTEKER:

6 Q. Good morning, Dr. Currier. I'm Peter
7 Biersteker. I represent R.J. Reynolds Company,
8 and we're here for your deposition today in the
9 Moore case. Before we begin, I want to know if
10 you've been deposed before, apart from the record
11 custodian deposition you gave in this case?

12 A. Yes, once.

13 Q. And on what occasion was that?

14 A. It was having to do with a hospital and
15 a lawsuit within a hospital.

16 Q. Were you an expert witness in that case?

17 A. I was involved in investigation of the
18 problem in the hospital.

19 Q. Was there -- what was the nature of the
20 problem, just in general terms?

21 A. Infectious.

22 Q. They had an outbreak of some infectious
23 disease in the hospital?

24 A. They had a person who was ill from an
25 infection that she probably shouldn't have -- it

1 was a nosocomial infection probably, and that was
2 what my testimony was about.

3 Q. How long ago was your deposition taken
4 in that case, approximately?

5 A. Five years ago approximately.

6 Q. Do you know the name of the case? Do
7 you know who the parties were?

8 A. I know the name of the hospital.

9 Q. What was the name of the hospital?

10 A. St. Dominics.

11 Q. Is that here in Jackson?

12 A. Yes.

13 Q. Do you know who the lawyers were that
14 were involved in that case?

15 A. I don't remember.

16 Q. Have you ever testified at trial?

17 A. Once.

18 Q. Was that in the same matter?

19 A. It was as an expert, in Scott County,
20 involving a salmonella outbreak.

21 Q. Did you testify on epidemiology in that
22 case?

23 A. Yes.

24 Q. What was the name of that case? Do you
25 remember?

1 A. I don't remember.

2 Q. Do you remember who any of the lawyers
3 were who were involved in that case?

4 A. No. I'm sorry.

5 Q. Do you remember -- you said it was about
6 five years ago? Or was that the deposition? I'm
7 confused.

8 A. Right. This was -- the Scott County
9 case was probably a year ago that I testified.

10 Q. You gave no deposition in that case? It
11 was only a trial?

12 A. That's correct.

13 Q. Since you've been through this process
14 and since you have able counsel, I don't know that
15 I need to review too many of the deposition
16 protocols, but I will, just briefly.

17 The first protocol is that it helps the
18 court reporter if we take turns talking and we
19 don't talk over the top of each other, so I will
20 try to not start my question until after you've
21 completed your answer. By the same token, I would
22 appreciate it if you would let me finish my
23 question before your answer. Is that all right?

24 A. Sure.

25 Q. Secondly, you need to answer audibly.

1 Shakes of the head are difficult for the reporter
2 to take down, so answer yes or no instead of
3 nodding your head.

4 A. Okay.

5 Q. If I ask a question and you don't
6 understand it, please let me know, and I'll try to
7 rephrase it so that you do understand it. If you
8 don't tell me that you didn't understand the
9 question, I'll assume that you did.

10 A. Okay.

11 Q. Is that also fair?

12 A. Sure.

13 Q. If for any reason during the course of
14 the deposition you want to take a break for
15 whatever reason, just let me know and I'll be
16 happy to accommodate you.

17 MR. MIKHAIL: Peter, we would like to
18 read and sign the deposition.

19 MR. BIERSTEKER: All right. That's
20 fine.

21 Why don't we make this the first
22 deposition exhibit.

23 [EXHIBIT NO. 1 WAS MARKED AND MADE A
24 PART OF THE RECORD.]

25 Q. (By Mr. Biersteker) Dr. Currier, I hand

1 you what's been marked as Exhibit 1, which is the
2 Notice of your deposition. Have you seen that
3 document before?

4 A. Yes.

5 Q. As part of the Notice, we asked you to
6 bring certain documents with you. And did you
7 bring any documents with you today?

8 A. I did.

9 Q. You did? May I see what you brought?

10 MR. MIKHAIL: Let me say on the record,
11 while she's looking for these documents, the
12 documents she's brought with her and the ones that
13 we are willing to share with you is without
14 waiving the objection that we had in the pending
15 motion for Protective Order or the enjoined -- the
16 issuance of subpoena primarily because the
17 documents are things that have been produced in
18 discovery and that you all are aware of already.
19 But we don't want her willingness to show these
20 documents to you to be a waiver of the motion that
21 we have made that remains pending before the
22 Chancery Court.

23 MR. BIERSTEKER: I want to make sure I
24 understand that, Charles. Are these documents,
25 then, all the documents other than privileged

10

1 documents that are responsive to the items
2 enumerated in the Notice?

3 MR. MIKHAIL: Well, first of all, there
4 is no copy of a final version of any study
5 prepared by Mary Currier. There is no such
6 document. Sub 2-A, all documents reviewed by Mary
7 Currier in connection with her testimony, I
8 believe that is correct. You have documents with
9 you.

10 THE WITNESS: Yes.

11 MR. BIERSTEKER: I can ask her.

12 MR. MIKHAIL: I want to make sure we're
13 on the same wavelength.

14 MR. BIERSTEKER: Right.

15 MR. MIKHAIL: B would be similar to
16 that. All right. C, it says all documents
17 prepared by Mary Currier in connection with her
18 testimony. Dr. Currier has not prepared any
19 documents. She may have jotted down some notes,
20 reviewing documents that she's relying on, just so
21 that she could not have to memorize numbers and
22 try to rely on her memory when she gives
23 testimony, but she has not prepared or authored
24 any documents in preparation for her testimony,
25 and our objection stands on correspondence with

1 counsel. We will not be producing any
2 correspondence or communication with counsel
3 whatsoever.

4 MR. BIERSTEKER: All right.

5 THE WITNESS: You have a copy of my
6 C.V.?

7 MR. BIERSTEKER: I do, yes. May not be
8 the same as yours, but I have a copy.

9 THE WITNESS: Pardon?

10 MR. BIERSTEKER: I said it may not be
11 the same as yours, but I have a copy.

12 MR. MIKHAIL: It was the one that was
13 produced to you on August 15 which we obtained
14 from Dr. Currier.

15 MR. BIERSTEKER: That's fine.

16 [COMMENTS OFF THE RECORD.]

17 Q. (By Mr. Biersteker) You had no other
18 documents, then, responsive to the Notice request?

19 A. No, but I may need those in the
20 deposition.

21 Q. If you do, we'll round them up. I just
22 wanted a chance to look at them.

23 MR. BIERSTEKER: All right. Why don't
24 we mark this as the next exhibit.

25 [EXHIBIT NO. 2 WAS MARKED AND MADE A

1 PART OF THE RECORD.]

2 Q. (By Mr. Biersteker) Doctor, I hand you
3 what's been marked as Exhibit 2, which really has
4 two parts. The first is a description of your
5 expected testimony in this case, and the second
6 part is your resume. I'd like to start with the
7 resume, if I may. First, is the resume current
8 and accurate?

9 A. Except that I no longer have a Maryland
10 medical license.

11 Q. All right. Anything else?

12 A. Not that I can see.

13 Q. I see from looking at the resume that
14 you have a masters in public health from Johns
15 Hopkins University, and I wanted to ask you, what
16 is public health?

17 A. Public health in practice or public
18 health in general?

19 Q. Why don't we do both? Why don't you
20 tell me first about public health in general.

21 A. The health of communities and
22 populations as opposed to individuals.

23 Q. And what is public health in practice?

24 A. In Mississippi, it is providing services
25 and interventions to prevent disease and improve

1 the health of the state.

2 Q. How do you improve the health of the
3 state, other than by providing services and
4 engaging in interventions?

5 A. Health education and health promotion
6 activities would be other things.

7 Q. What distinguishes health education and
8 promotion from interventions?

9 A. When I said interventions, I was
10 thinking specifically about things that we do in
11 epidemiology such as providing antibiotics to
12 close contacts of meningitis cases or
13 immunoglobulin to close contacts of hepatitis A
14 cases to prevent disease.

15 Q. Is public health different from basic
16 medical research?

17 A. I would say so, yes.

18 Q. How is it different?

19 A. We in the Health Department don't do
20 studies about biological -- we don't do basic
21 research. We do sometimes do surveys and
22 questionnaires and studies about attitudes and
23 beliefs or studies about the presence or absence
24 of a risk factor for diseases, but we don't do
25 clinical trials or animal research.

1 Q. Is the objective of public health
2 different than the objective of basic medical
3 research?

4 A. I think in public health we take the
5 research that is done and try and use it in a
6 practical manner as opposed to doing that basic
7 research ourselves.

8 Q. Would public health -- try that again.
9 Is it fair to say that the public health
10 community's approach to health issues could be
11 characterized as better safe than sorry?

12 A. Well, certainly a lot of what we do is
13 educating people as to what the safer way of
14 living is.

15 Q. If there's a question about whether or
16 not a particular lifestyle choice might, in fact,
17 be a cause of adverse health consequences in the
18 population a reason for the public health
19 community to stay its hand and remain silent?

20 A. I'm sorry. I don't understand the
21 question.

22 MR. MIKHAIL: Could you repeat the
23 question, because I didn't understand it either,
24 Peter.

25 Q. (By Mr. Biersteker) Let me tell you what

1 I'm driving at, and then maybe it'll help.
2 Earlier I asked you a question about is it fair to
3 say that the attitude of the public health
4 community's approach to issues is better safe than
5 sorry and so that if there were a question about
6 -- that perhaps a person doing basic medical
7 research might have about whether or not there's a
8 causal connection between lifestyle choice acts
9 and point Y, that if the evidence rises to a
10 certain level, the public health community might
11 be more apt to say, Look, we don't have to dot all
12 of our I's and cross all of our T's. We've got
13 enough here to know that at least there's this
14 question, and based on that question, we ought to
15 act -- we ought to -- I haven't framed the
16 question yet and I know it -- that based upon the
17 evidence that we do have, we nonetheless ought to
18 act. And, so, my question is: Is the public
19 health community willing to act to try to prevent
20 disease more quickly than, say, somebody who is
21 engaged in basic medical research would be?

22 MR. MIKHAIL: I'm going to object to
23 the form of the question. The question's being
24 asked in the abstract, and I would object to the
25 form. You can attempt to answer it the best you

1 can, but I do want to register an objection to the
2 question.

3 MR. BIERSTEKER: Objection noted.

4 THE WITNESS: I think it depends on
5 what the issue is. I don't think you could make a
6 blanket statement one way or the other.

7 Q. (By Mr. Biersteker) Certainly not in
8 each and every case. I just asked as a general
9 tendency, is it more likely to act -- the public
10 health community more likely to act on incomplete
11 information than basic medical researchers?

12 MR. MIKHAIL: Objection to the form of
13 the question.

14 MR. BIERSTEKER: I think it's silly,
15 but go ahead.

16 MR. MIKHAIL: Peter -- before you
17 answer the question -- you don't have to
18 characterize the nature of my objections as silly
19 or meritorious or any other way. The Case
20 Management Order that we signed on to says we are
21 allowed to object to the form of the question and
22 that all other objections are preserved. I'm
23 going to object to the form of the question when I
24 think it's proper. And if you're going to
25 characterize it in a certain way, then I think

1 we're going to have some trouble today.

2 MR. BIERSTEKER: I think we are because
3 I don't see anything wrong with the form of the
4 question.

5 MR. MIKHAIL: I can object to the form
6 of the question and she can answer it. I'm not
7 instructing her not to answer it.

8 MR. BIERSTEKER: All right.

9 MR. MIKHAIL: If you're going to
10 continue characterizing counsel's objections --
11 let me finish what I have to say -- in a certain
12 way, we're not going to get anywhere. Let's keep
13 it civil and keep it proper.

14 MR. BIERSTEKER: I have no desire to
15 keep it anything other than civil.

16 MR. MIKHAIL: I don't want to do this,
17 Peter, but I have a right to object to the form of
18 the question, and she can continue to answer the
19 best she can unless instructed otherwise. So why
20 don't you ask your question again and let's get
21 these ground rules to begin with.

22 Q. (By Mr. Biersteker) As a general
23 proposition, is the public health community more
24 willing to act based upon incomplete information
25 about the precise causes of illness than basic

1 medical researchers?

2 A. Well, first of all, I don't think basic
3 medical researchers would usually act on their
4 information. They would continue to do more
5 research, if you see what I'm saying. I don't
6 know. I've not really thought about that before.
7 I really think it would depend on where you are
8 and what group -- what public health group you're
9 talking about.

10 Q. How about the Mississippi public health
11 community?

12 A. I don't -- I don't know.

13 Q. What is PEER Review?

14 A. PEER Review literature is journals that
15 are reviewed by experts who can criticize and take
16 it back to the editor and say they do or don't
17 believe this is a good article or a good study.

18 Q. Is the Mississippi Morbidity Reporter up
19 here a journal?

20 A. No.

21 Q. What is epidemiology?

22 A. The study of disease in communities.

23 Q. Are you an expert in epidemiology?

24 A. To a degree.

25 Q. Could you explain that answer, please?

1 A. I -- I practice epidemiology and put it
2 into practice, but I don't do in general --
3 although occasionally we do studies, like I said,
4 I don't do epidemiologic studies and write papers,
5 and I'm not an academic epidemiologist.

6 Q. Did you take courses in epidemiology in
7 the pursuit of your master's degree at Johns
8 Hopkins?

9 A. Yes.

10 Q. Did you take courses in epidemiology
11 during medical school?

12 A. We had one preventive medicine course
13 that included epidemiology.

14 Q. How many classes in epidemiology did you
15 take at Johns Hopkins?

16 A. At least three; probably more.

17 Q. Were they -- those courses a year-long
18 course or a semester? Do you remember?

19 A. We were in quarters, and each one was
20 one quarter.

21 Q. You said that you practice epidemiology
22 and put it into practice.

23 A. Uh-huh.

24 Q. What do you mean by that?

25 A. We, in our division, use studies that

20

1 other people have written to make decisions about
2 things like food-borne outbreaks and meningitis
3 cases and who gets prophylaxis, what to do about
4 the hepatitis A.

5 Q. So, as I understand what you said is,
6 based on studies done by others, then the State
7 Epidemiologist's office determines what actions
8 might be appropriate?

9 A. In response to outbreaks or whatever,
10 yes.

11 Q. Does the State Epidemiologist's office
12 conduct any epidemiological studies on-site?

13 A. We do occasionally, yes.

14 Q. About how many such studies has the
15 office conducted over the last -- well, since your
16 tenure there?

17 A. Oh, dear. We're working on one now that
18 is a lab survey. I don't know if you would call
19 it a study or not. It's a survey of the labs in
20 the state to see what kind of bacterial culturing
21 they do and what kinds of bacteria they look for
22 in their cultures and what their capacity is,
23 basically, and how much of certain kinds of
24 bacteria they've found in some of their
25 culturing. We did a study at one point that was

21

1 never published about how many adults over the age
2 of 65 get flu shots. We did a -- we looked at
3 Arsenic poisonings in the state. I don't know
4 exactly how many, but it's not very many.

5 Q. Are there any others that you can
6 remember?

7 A. We've done studies to look at the
8 accuracy of our surveillance system, our disease
9 surveillance system, going into hospitals and
10 finding cases of particular kinds of diseases and
11 then seeing how many have been reported to us.

12 Q. If I might interrupt --

13 A. I --

14 Q. I'm sorry. Go ahead.

15 A. I was just going to say, I can't
16 remember any others offhand.

17 Q. You spoke about a disease surveillance
18 survey. Does that survey have a name?

19 A. Well, our surveillance system, we have a
20 Reportable Disease Surveillance System in the
21 state.

22 Q. Is that what it's called, Reportable
23 Disease Surveillance System?

24 A. Well, what is it called? Basically,
25 yes.

1 Q. And I take it one of the studies you did
2 was then to go to hospitals and to collect data on
3 disease incidence to compare it to the survey
4 information; is that right?

5 A. Uh-huh.

6 Q. Did you do that to determine whether or
7 not the survey data you had obtained was accurate?

8 A. We did it to see if our surveillance
9 system was sensitive.

10 Q. In what sense, sensitive?

11 A. To see how many of the cases that truly
12 occurred we picked up through the surveillance
13 system.

14 Q. Is the surveillance system supposed to
15 be comprehensive?

16 A. By comprehensive do you mean --

17 Q. Is it supposed to pick up every --

18 A. -- get all the cases?

19 Q. Pick up all the cases in the state,
20 yes.

21 A. It is, although we know for many
22 diseases we don't get anywhere near all the
23 cases. For some of them, the Class I diseases, we
24 hope to get all or almost all of them because
25 those are the diseases that we actually go in and

1 do something about as far as finding contacts and
2 providing prophylaxis.

3 Q. What are Class I diseases?

4 A. Diseases that are reportable at first
5 knowledge or suspicion of the diagnosis.

6 Q. Is there a list somewhere written down
7 of Class I diseases?

8 A. There is, yes.

9 Q. Where is it written down?

10 A. Not with me. In our office.

11 Q. When the Mississippi State's
12 Epidemiologist's office examines published studies
13 to determine appropriate courses of action, does
14 it evaluate the published studies curriculum?

15 A. You mean in order to make policy?

16 Q. Well, let me -- you base your policy and
17 your activities on published epidemiological
18 studies, right?

19 A. Yes.

20 Q. Before you decide what policy steps to
21 take, do you critically evaluate the
22 epidemiological studies upon which you're going to
23 base your actions?

24 A. We usually base our actions on the
25 position of other groups that have critically

1 evaluated the states such as the ACIP,
2 Immunization Practices Advisory Committee, and the
3 American Association of Pediatrics, and the
4 Centers for Disease Control.

5 Q. So if it bears the imprimatur of another
6 professional group, then you would tend to accept
7 it?

8 A. We would consider it.

9 Q. Has there ever been an instance when the
10 Mississippi Epidemiologist's office has decided
11 that a particular epidemiological study was
12 inadequate to support policy decisions?

13 A. We haven't based policy decisions on one
14 study.

15 Q. Would it be inappropriate to do that?

16 A. I believe so, unless it was an enormous
17 study that nobody could find any fault with.

18 Q. Have you ever seen an enormous study
19 with which no one could find any fault?

20 A. Probably not.

21 Q. Have you ever conducted an
22 epidemiological study yourself?

23 A. The ones we mentioned before, I was
24 either involved or I did myself.

25 Q. And that was the flu shots and the

1 Arsenic and, to the extent it's an epidemiological
2 study, the survey of the labs?

3 A. Uh-huh.

4 Q. Prior to becoming State Epidemiologist,
5 did you conduct any epidemiological study
6 yourself?

7 A. Some of those were during the time when
8 I was medical consultant.

9 Q. Do you know what the formula is for
10 computing the population attributable risk?

11 A. I can point it out in the books for you,
12 but I can't remember it off the top of my head.

13 Q. Do you know what variables go into that
14 formula?

15 A. Yes.

16 Q. What are they?

17 A. The relative risk associated with the
18 exposure and the proportion of the population that
19 is exposed.

20 Q. And the letter is called the prevalence?

21 A. Of the exposure, yes.

22 Q. I saw in your resume that for some time
23 you taught at the University of Mississippi
24 Medical Center; is that right?

25 A. A lot of us in the Division of

1 Epidemiology help with the preventive medicine
2 course with medical students at UMC. It's not our
3 own course; we just help the person that does it.

4 Q. Do you lecture to the students at all?

5 A. Occasionally.

6 Q. Could you give me a ball park estimate
7 of how many times during the course of the course
8 you would lecture?

9 A. Couple times.

10 Q. On what do you lecture?

11 A. I have talked to them about what we do
12 in our office, just as sort of a -- the practice
13 of preventive medicine, some of the options. I've
14 talked to them about the preventive medicine
15 residency program, and I've talked to them about
16 injuries, unintentional injuries and intentional.

17 Q. Did you ever lecture on the subject of
18 smoking?

19 A. No.

20 Q. I see that you're also a medical
21 doctor. Do you have any specialty?

22 A. Preventive medicine.

23 Q. Do people get Board-certified in
24 preventive medicine?

25 A. Yes.

1 Q. Is there -- do you have any other Board
2 certifications?

3 A. No.

4 Q. For how long -- I'm a little confused by
5 your resume, since it only has one date for each
6 of your different occupations. Are the dates
7 listed on your resume starting dates?

8 A. Yes.

9 Q. Are you continuing to occasionally
10 lecture to the students at the University of
11 Mississippi Medical Center?

12 A. Yes.

13 Q. Was your job as a medical consultant to
14 the Mississippi State Department of Health a
15 full-time job from July of 1988 --

16 A. Yes.

17 Q. -- forward? And did you stop serving as
18 a medical consultant in June of 1993?

19 A. Basically, I do almost the same thing.
20 The title just changed.

21 Q. All right. What are your duties as
22 State Epidemiologist?

23 A. I'm supervisor for several people, and I
24 act as sort of team leader for the Division. We
25 have three epidemiology nurses, an environmental

1 epidemiologist, and infectious disease physician,
2 and a chronic disease epidemiologist, and we work
3 together on whatever is going on or basically
4 where the need is at the time. We investigate
5 outbreaks. We deal with individual cases of like
6 some of the things I've mentioned before,
7 meningitis, hepatitis A. We do surveillance in
8 the Winter for influenza and in the Summer for
9 vector form encephalitis and work with PR in
10 letting people know about these things when
11 they're around. I work with, and really everyone
12 in our Division works with, the other programs in
13 the office such as TB, HIV, STD, and immunizations
14 to develop their manuals and their policies and
15 answer questions out in the field.

16 Q. To whom do you report?

17 A. Dr. Hodgekiss. He's the Office Chief.

18 Q. Could you identify for me the principal
19 projects on which you have worked since 1988?

20 A. Projects?

21 Q. Yes, in the State Epidemiologist's
22 office. You talked about the survey on influenza,
23 and I just want to know what the principal
24 activities have been -- principal activities of
25 yours have been since 1988, when you assumed this

1 position.

2 MR. MIKHAIL: Can you do that?

3 THE WITNESS: It's basically what I
4 have done all along, is what I just stated, as
5 well as working with Ellen Jones in Health
6 Promotion and Health Education.

7 Q. (By Mr. Biersteker) Well --

8 A. It's not a project-oriented job.

9 Q. Have there been particular diseases or
10 conditions that have been the focus of the work of
11 the State Epidemiologist since 1988?

12 A. It depends on what's going on in the
13 state at the time as to what our focus is.

14 Q. I just wanted to know what they are. I
15 don't need to know --

16 A. I can give you our list of reportable
17 diseases, if that would help.

18 Q. Well, does it? I just want to know what
19 have been the major diseases or conditions that
20 the State Epidemiologist's office has pursued
21 since 1988.

22 A. As far as surveillance goes, the
23 particular diseases that we have set up special
24 systems for are influenza and encephalitis. As
25 far as prevention activities go, the diseases that

30

1 take the most time are meningitis and hepatitis A.

2 Q. Are there any others that come to mind?

3 A. The most recent disease that we've spent
4 more time than usual on is gastroenteritis caused
5 by E-coli 015787 in the Meridian area.

6 Q. Has the State Epidemiologist's office
7 undertaken any projects with respect to chronic
8 disease since 1988?

9 A. We have worked with Ellen in looking at
10 the Behavioral Risk Factor Surveillance System
11 data, as far as helping them understand and
12 looking at the data from that. We now have a
13 chronic disease epidemiologist who is actually a
14 Federal employee who's helping look at breast and
15 cervical cancer, and we have started a Cancer
16 Registry.

17 Q. When did you start the Cancer Registry?

18 A. They actively started collecting cases
19 this calendar year.

20 Q. When did the State procure the services
21 of this Federal chronic disease epidemiologist?

22 A. Last July -- or this past July, 1996.

23 Q. Is there anything else that you can
24 remember that the State Epidemiologist's office
25 has done with respect to chronic disease since

1 1988?

2 A. We have a Spinal Cord Injury Registry.
3 The injury itself, of course, is not chronic, but
4 the results are often chronic. That was started
5 several years ago. I can't think of anything
6 else.

7 Q. I take it, then, that since 1988 -- I'm
8 sorry. Go ahead.

9 A. We have a hypertension program that
10 actually was in a different office than ours until
11 recently, and they're also involved in diabetes.

12 Q. Have there been any projects in the
13 State Epidemiologist's office since 1988 that
14 relate specifically to smoking?

15 A. No.

16 Q. Why not?

17 A. Most of the activities regarding smoking
18 and smoking prevention were not in our Division.

19 Q. And those responsibilities fell to whom?

20 A. They're in the Division of Health
21 Promotion/Health Education.

22 Q. And that's the Division in which Ellen
23 Jones was?

24 A. Uh-huh.

25 Q. Have you worked with -- is its Ms. or

1 Dr. Jones? I'm not sure which.

2 A. Ms.

3 Q. Have you worked with Ms. Jones on
4 anything other than an analysis of the Behavioral
5 Risk Factor Survey?

6 A. I didn't actually analyze it. I've just
7 looked at it with them to help understand what the
8 statistics mean. We've worked together in
9 general, looking at things that are going out to
10 the public and just making sure they make sense.
11 She has done that for us, and we've done that for
12 her.

13 Q. You review each other's --

14 A. Sometimes, yes.

15 Q. Let's return to the front page of
16 Exhibit 2.

17 A. Okay.

18 Q. And this describes your expert
19 opinions. Have you seen this before?

20 A. Yes.

21 Q. When did you first see it?

22 A. Couple months ago.

23 MR. MIKHAIL: Just the best of your
24 recollection.

25 MR. BIERSTEKER: I'd love to ask

1 Charles questions, but he never answers me.

2 Q. (By Mr. Biersteker) Does the Expert
3 Disclosure Statement accurately summarize the
4 opinions you are going to give at the trial of
5 this lawsuit?

6 A. I think so.

7 Q. Does it completely describe the opinions
8 you expect to give at the trial of this lawsuit?

9 A. I believe so.

10 Q. Have you done any specific work in order
11 to arrive at these opinions?

12 A. I've reviewed the documents that I gave
13 you earlier.

14 Q. Have you reviewed anything other than
15 those documents?

16 A. No.

17 Q. Do you plan on doing any additional work
18 to support your opinions?

19 A. I will probably continue to review those
20 documents or things like that. For example, the
21 Morbidity and Mortality Weekly Report, the MMWR,
22 from CDC, from November 8th has smoking related
23 articles in it, and I do plan to read those.

24 Q. Do you read the MMWR as part of your --
25 during the course of your performance of your

1 duties as State Epidemiologist?

2 A. Yes.

3 Q. So as I understand it, you will continue
4 to read new literature that might come out that
5 relates to the opinions you're going to offer at
6 trial?

7 A. Yes.

8 Q. Are you going to go back and survey
9 literature that was published before this year to
10 augment the basis of your opinions?

11 A. Probably.

12 Q. How are you going to determine -- strike
13 that. How are you going to identify the
14 literature that you wish to review?

15 A. I don't know.

16 Q. Apart from reading additional published
17 research, is there anything else that you plan on
18 doing to support your opinions in this case
19 between now and the time of trial?

20 A. I'm sorry. Can you ask me that again?

21 Q. Apart from reviewing additional
22 literature, is there anything else that you plan
23 to do to support your opinions prior to the trial
24 of this case?

25 A. No.

1 Q. Do you think that you should review
2 additional literature?

3 A. Yes.

4 Q. Why?

5 A. Because I'd like to be able to answer
6 the questions in an intelligent way.

7 Q. Do you have doubts about -- let's try
8 this again. Is it possible that your opinions
9 might change?

10 A. No.

11 Q. Why not?

12 A. Because I have read the opinions of
13 experts in the field of basically tobacco
14 epidemiology, and I rely on their expert opinions,
15 such as in the 1989 Surgeon General's Report.

16 Q. Have you been asked to do any additional
17 work beyond that which you've already done?

18 A. By whom?

19 Q. Charles Mikhail or plaintiff's counsel.

20 A. No.

21 Q. I want to walk through with you, if I
22 might, the different parts of the description of
23 your testimony, and the first part I'd like to
24 focus on is the middle paragraph of this
25 statement.

1 It appears that you're going to offer
2 some testimony related to the prevalence of
3 smoking; is that right?

4 A. Yes.

5 Q. Do you know what the prevalence of
6 smoking is in the Mississippi Medicaid population?

7 A. No.

8 Q. Do you know what the prevalence of
9 smoking is in the Mississippi Medicaid population
10 for any year?

11 A. No.

12 Q. Do you know what the prevalence of
13 smoking is among employees of the State of
14 Mississippi?

15 A. No.

16 Q. Do you know that information for any
17 year?

18 A. No.

19 Q. Do you know the prevalence of smoking in
20 the recipients of unfunded care at different
21 hospitals in the State of Mississippi?

22 A. No.

23 Q. Do you know that for any year?

24 A. No.

25 Q. If -- is it possible, then, to compute a

1 population attributable risk for the Mississippi
2 Medicaid population in any year?

3 A. Sure.

4 Q. I thought you told me earlier that one
5 needed to know the prevalence of smoking in a
6 population as one of the variables that enters
7 into the calculation, right?

8 A. Yes.

9 Q. And if you don't know that, how can you
10 make the calculation?

11 A. You can estimate the prevalence by
12 knowing the demographics of the population and
13 using the prevalence obtained from, say, the
14 Behavioral Risk Factor Surveillance System or the
15 Cancer Prevention Survey.

16 Q. Well, the Behavioral Risk Factor Survey
17 doesn't include information, does it, on whether
18 somebody's on Medicaid or not?

19 A. No.

20 Q. Does it include information about
21 whether somebody's a State employee or not?

22 A. No.

23 Q. Does it include information on whether
24 somebody's a recipient of unfunded hospital care?

25 A. No.

1 Q. Does the Cancer Prevention Survey
2 contain any of that information?

3 A. No. Not that I know of. I'm not --
4 actually, I'm not sure about that.

5 Q. Without actual data, is there any way to
6 determine whether or not the estimates made of
7 smoking prevalence in any of those populations are
8 accurate?

9 A. You can estimate the prevalence pretty
10 accurately. It's -- actually, the Behavioral Risk
11 Factor Surveillance System data is probably an
12 underestimate of smoking in the Medicaid
13 population, to be real honest.

14 Q. How do you know that?

15 A. Well, one way we know it is the -- Ellen
16 Jones and several other people went to the Delta
17 -- I believe it was in 1993 -- and actually were
18 concerned because the Behavioral Risk Factor
19 Surveillance System depends on whether or not you
20 have a telephone. And we know that in the Delta
21 there is a proportion of people who don't have
22 telephones, so they were concerned that there
23 might be an underestimate of some of the health
24 behaviors that we were looking at in the
25 Behavioral Risk Factor Surveillance System in the

1 population without telephones, or we don't know
2 what that is. So they went and surveyed people
3 face to face as opposed to by phone to see if the
4 Behavioral Risk Factor data was accurate. And one
5 of the things that was found was the population
6 without funds actually had a higher smoking
7 prevalence than was found in the BRFSS data.

8 Q. Was that on an age-adjusted basis?

9 A. No. It was just a pretty informal
10 survey.

11 Q. How many people were included in that
12 survey?

13 A. I'm not sure, but it's among the
14 documents that I gave you.

15 Q. If you want to take a look, you may.

16 MR. MIKHAIL: If you need a couple
17 minutes to look at that, maybe it would be a good
18 chance to take a break and have her look through
19 it. Or is it something you can refer to right
20 away?

21 THE WITNESS: If I can find the piece
22 of paper with the pink slip on it. Here it is.
23 533 person-to-person surveys.

24 Q. (By Mr. Biersteker) Were the people who
25 participated in that person-to-person survey

1 randomly selected?

2 A. They were questioned in a shopping
3 center parking lot.

4 Q. The answer to my question, I take it, is
5 no?

6 A. Correct.

7 Q. What proportion of the people in the
8 Delta don't have phones?

9 A. About 20 percent.

10 Q. Is that people or households?

11 A. People.

12 Q. You mentioned earlier that you thought
13 the BRFSS data underestimated smoking in the
14 Medicaid population.

15 A. That's just a guess.

16 Q. Wouldn't you expect the prevalence of
17 smoking in the Mississippi Medicaid population to
18 be lower than it is in the general population?

19 A. Why?

20 Q. Do you have an expectation?

21 A. I do.

22 Q. And what is it?

23 A. That it would actually be higher than
24 the general population.

25 Q. And my question is, why?

41

1 A. Because if you look at smoking
2 prevalence data, it actually goes down with
3 education level, and my expectation would be that
4 the --

5 Q. The more educated you are, the less
6 likely you're going to smoke?

7 A. Correct.

8 Q. I'm sorry. Go ahead. Did you have
9 something?

10 A. I was going to say, my expectation would
11 be the Medicaid population had a lower education
12 level than the general population.

13 Q. Smoking is also more common in men than
14 in women, isn't it?

15 A. Yes.

16 Q. To what are you referring there,
17 Doctor? A summary of the BRFSS data, I see.
18 Maybe the -- go off the record for a minute.

19 [OFF THE RECORD.]

20 [SHORT BREAK.]

21 MR. MIKHAIL: We just wanted to make
22 one thing clear for the purposes of the record.
23 And if my brief statement opens up questions or
24 you wish to explore what I have to say further
25 with Dr. Currier, she's the witness, and I don't

1 want to fall into the trap of testifying, but I
2 just want to make sure that it's clear.

3 Statements were made in response to
4 questions that you made about documents she's
5 reviewed or relied on, and I think at one point
6 something was said to the effect that they're
7 here. They're with me. There are other materials
8 as described in the 26 (b) (4) statement that are
9 obviously not with her, such as scientific and
10 medical literature, such as other Surgeon General
11 Reports. I think one of them is here. And I'm
12 not going to go through the whole list, but I do
13 want the record to reflect that the 26 (b) (4)
14 statement does reflect that she has reviewed and
15 is relying on material that is not physically with
16 her today, so there won't be any misunderstanding.

17 MR. BIERSTEKER: I do have a few
18 questions. We can do this while we're waiting for
19 the copies to be made.

20 MR. MIKHAIL: That's fine.

21 Q. (By Mr. Biersteker) How did you go about
22 selecting the materials that you would bring with
23 you as opposed to the materials that you left
24 behind?

25 A. I brought the things that I have already

1 looked at.

2 Q. Are these the only materials that you
3 have examined so far?

4 A. These and the ones that are being
5 copied.

6 Q. How did you go about identifying those
7 materials?

8 A. I chose things that were general as far
9 as going over the whole field of chronic disease
10 and smoking epidemiology as well as Mississippi
11 statistics.

12 Q. Yes, I know, but there's probably a
13 greater wealth of information than that that
14 you've brought.

15 A. I had these handy.

16 Q. These were in your office?

17 A. The top two were. The Surgeon General's
18 Report wasn't.

19 Q. The top two is the Chronic Disease
20 Epidemiology and Control, by Brownson, Remington,
21 and Davis?

22 A. Yes.

23 Q. All right. And the other top one is
24 Vital Statistics Mississippi 1995?

25 A. Yes.

1 Q. Are there any particular -- well, there
2 is no other particular article or book or other
3 piece of scientific and medical literature that
4 you've reviewed and relied upon to date that you
5 can remember, is there?

6 A. No.

7 Q. The document goes on to discuss various
8 studies, reports, and/or surveys. Do you see that
9 reference?

10 A. Yes.

11 Q. Which specific studies, reports, and/or
12 surveys have you reviewed?

13 A. I've looked at some of the Behavioral
14 Risk Factor Surveillance System data that was in
15 the folder that you're having copied.

16 Q. For which years do that data exist?

17 A. What I have is '91 through '95.

18 Q. And those are the years that you looked
19 at?

20 A. Yes.

21 Q. Anything else besides the Behavioral
22 Risk Factor Surveillance System data?

23 A. I have a few pages from the summary of
24 the Youth Risk Behavior Survey.

25 Q. Do you know which year that was

1 conducted?

2 A. The pages that I have are from 1985, I
3 believe.

4 Q. We'll check when it comes back. Are
5 there any other studies, reports, and/or surveys
6 that you have reviewed or are relying upon
7 relating to your opinions in this case?

8 A. That I have already looked at?

9 Q. Yes, ma'am.

10 A. A couple of the pages that you're having
11 copied were additional analysis of vital records
12 data for Mississippi.

13 Q. Any other studies, reports, and/or
14 surveys that you have reviewed or are relying upon
15 so far?

16 A. Not that I can remember, but they would
17 be in those folders.

18 Q. Are there -- I apologize if I've asked
19 you this before. Are there any particular
20 scientific or medical articles or books that you
21 intend to go and examine after we're finished
22 here?

23 A. I think before you asked me if I had a
24 plan.

25 Q. Right.

1 A. I will probably look at other Surgeon
2 General's Reports. Beyond that, I don't know.

3 Q. The only Surgeon General's Report that
4 you've examined to date is --

5 A. 1989.

6 Q. And only portions of that?

7 A. Correct.

8 Q. Any other particular articles or books
9 from the scientific and medical literature that
10 you know now you might want to examine?

11 A. I don't know.

12 Q. You don't know of any others?

13 A. I don't know what else I will look at.

14 Q. By the same token, are there any surveys
15 or other data compilations that you know exist
16 that you intend to look at but haven't looked at
17 so far?

18 A. I'm sure there are others and I will --
19 I'm sure I'll be looking for them, but I don't
20 know what they are currently.

21 Q. The Expert Disclosure Statement also
22 says that you have reviewed information concerning
23 this case. What does that refer to?

24 MR. MIKHAIL: I would object to the
25 form of the question in this regard: I believe

1 the paragraph three says expected to rely on. It
2 does not say that she has reviewed.

3 MR. BIERSTEKER: Well, she's expected
4 to rely on her review of information concerning
5 this case.

6 Q. (By Mr. Biersteker) Have you reviewed
7 any information concerning this case?

8 A. I would think everything I've reviewed
9 regarding smoking epidemiology concerns this case,
10 but that's all.

11 Q. And everything you've reviewed
12 concerning smoking epidemiology are the materials
13 we've already discussed?

14 A. Correct.

15 Q. Is there anything in addition?

16 A. That I have already reviewed?

17 Q. Yes, ma'am.

18 A. No.

19 [COMMENTS OFF THE RECORD.]

20 [EXHIBIT NO. 3 WAS MARKED AND MADE A
21 PART OF THE RECORD.]

22 Q. Doctor, have you ever had contact with
23 Leonard Miller?

24 A. I don't remember if I've actually met
25 him or not. I think that I have.

1 Q. All right. Have you spoken to him on
2 the phone, separate and apart from any physical
3 meeting you may have had?

4 A. I don't think so.

5 Q. What -- did you discuss anything with
6 Dr. Miller?

7 MR. MIKHAIL: Do you know who he's
8 talking about, Leonard Miller?

9 MR. BIERSTEKER: Leonard Miller. We'll
10 ask about Vince, too.

11 MR. MIKHAIL: I just didn't want her to
12 be confused.

13 THE WITNESS: I can't remember if I
14 have actually spoken to him or just heard him
15 spoken of.

16 Q. (By Mr. Biersteker) All right. Have you
17 had any contact with Dorothy Rice?

18 A. No.

19 Q. Have you had any contact with Professor
20 David Burns?

21 A. Yes.

22 Q. Describe those contacts for me.

23 A. I've spoken with him on the phone
24 several times. He was working on interpreting or
25 examining or analyzing data from several sources

1 in Mississippi that we were trying to get for him.

2 Q. Did you get data of one kind or another
3 for Mississippi at his request?

4 A. Yes.

5 Q. What data did you provide to him?

6 A. I didn't actually provide it personally,
7 but it did -- and I'm not sure if it actually came
8 through the Health Department or was given to Dr.
9 Burns eventually when he got it, but there was
10 some Medicaid data, some University of Mississippi
11 data, I believe, and some employees' insurance
12 data.

13 Q. Do you know what kind of data were
14 provided?

15 A. Cost and illness data, as I understand
16 it. I didn't actually look at it.

17 Q. Were they data tapes?

18 A. I don't know.

19 Q. Did you provide any other data to Dr.
20 Burns?

21 A. I think he probably has the vital
22 records data as well, but I'm not sure about that.

23 Q. Anything else?

24 A. I don't know.

25 Q. What did you -- apart from fielding

1 requests for data, what else did you discuss with
2 Dr. Burns?

3 A. That's basically been the extent of our
4 conversation.

5 Q. Would he call and basically ask: Send
6 me data on Medicaid?

7 A. Right, where is it?

8 Q. Do you know for which years the data
9 that you provided?

10 A. That was provided?

11 Q. Yeah, that was provided to him, to which
12 years it pertained?

13 A. I'm not sure.

14 Q. Did you keep copies of any of the
15 materials you sent to Dr. Burns?

16 A. No.

17 Q. Have you had any contact with Professor
18 Wendy Max?

19 A. Not that I recall.

20 Q. Have you had any contact with Zulan Zang
21 (phonetic) or Joan Bartlett?

22 A. Not that I recall.

23 Q. Any contact with Professor Nevotni
24 (phonetic)?

25 A. I believe I've met him, yes.

1 Q. How did you meet him?

2 A. At a meeting in Atlanta at CDC.

3 Q. Was this a -- well, what was the meeting
4 about?

5 A. Cost of -- cost to the State of
6 smoking-related illnesses.

7 Q. Who was at the meeting?

8 A. That's where -- I don't think Lynn
9 Miller was actually at that meeting. I think he
10 was just talked about at that meeting. I believe
11 Dr. Nevotni was there. Alan Penman was there, who
12 at the time was an EIS officer with us.

13 Q. Is he the chronic disease
14 epidemiologist?

15 A. Yes. And at that time, he was an EIS
16 officer in the CDC. Oh, who else? Dick Johnson
17 may have gone, but I don't recall.

18 Q. Who is Dick Johnson?

19 A. He's the person in Vital Records at the
20 Health Department.

21 Q. Did you have this meeting before or
22 after you provided the data to Dr. Burns, or
23 neither? May have provided some before and some
24 after, I guess.

25 A. In the middle of -- probably before, but

1 certainly he didn't have all the data at that
2 point.

3 Q. When did the meeting occur?

4 Approximately. Was it Winter? Was it this year
5 or last year or --

6 A. Probably Fall of '94, but I don't
7 remember exactly.

8 Q. It wouldn't have been as recently as
9 last Fall, 1995?

10 A. No.

11 Q. What did you discuss at your meeting?

12 A. I mostly listened.

13 Q. What was discussed at the meeting?

14 A. How to go about best estimating the cost
15 of smoking-related illness to states.

16 Q. Could you describe the substance of
17 those conversations, please?

18 A. A lot of discussion about what data was
19 available and where to best get smoking prevalence
20 data and things related basically back to cost
21 estimates.

22 MR. BIERSTEKER: Could you read that
23 answer back?

24 [PREVIOUS ANSWER READ BACK.]

25 Q. (By Mr. Biersteker) Did the participants

1 at this meeting think it was important to have
2 smoking prevalence data for the specific
3 populations at issue?

4 MR. MIKHAIL: Object to the form, but
5 you can answer.

6 MR. BIERSTEKER: I can do it better.

7 Q. (By Mr. Biersteker) Did the participants
8 think it was important to have smoking prevalence
9 data specific to the Mississippi Medicaid
10 population?

11 MR. MIKHAIL: Still object to the form,
12 but you can answer it.

13 THE WITNESS: They thought it was
14 important to have the most accurate data that was
15 available used in their computations. I don't
16 know if they talked about that specifically or
17 not.

18 Q. (By Mr. Biersteker) Are there any data
19 on smoking prevalence in Mississippi, Medicaid
20 population specifically?

21 A. Not specifically related to Medicaid
22 population, no.

23 Q. Are there any data related specifically
24 to smoking prevalence in the State employee
25 population?

1 A. Not that I know of.

2 Q. Is the same true of the recipients of
3 unfunded care at various hospitals in the State?

4 A. Yes.

5 Q. I believe you referred to other data or
6 data sources that may have been discussed at this
7 meeting. Do you recall anything specifically
8 about discussions relating to other data sources?

9 A. I think they talked about -- I don't
10 know. They may -- I think they talked about CPS
11 data. I don't know if they meant -- thinking back
12 on it, I don't know if they meant -- I'm making
13 guesses at my memory. I'm sorry.

14 Q. All right. That's fair. Is there
15 anything that might refresh your memory?

16 A. Time warp.

17 Q. Did you have notes?

18 A. No.

19 Q. You referred, also, I believe -- well,
20 strike that. What did you mean by things relating
21 back to costs?

22 A. Just talking about all the kinds of
23 information they were going to need to get out
24 what the cost was most accurately.

25 Q. And what information did they need in

1 order to do that?

2 A. The actual expenditures by the State of
3 Mississippi, the demographics of the populations.
4 I don't -- I don't remember what else.

5 Q. Did they want the cost data
6 disaggregated in any way?

7 A. Can you --

8 Q. Did they want it divided up, or was it
9 enough to know the State of Mississippi spent --

10 A. Oh, no.

11 Q. -- a million dollars in 1995 on
12 Medicaid?

13 A. No, they wanted it divided up by illness
14 and demographics, things like that.

15 Q. By demographics, do you mean anything
16 other than age, race, and sex?

17 A. I don't think so.

18 Q. Was this the only meeting that you had
19 concerning estimates of health care costs incurred
20 by the State of Mississippi for Medicaid, State
21 employees, or unfunded hospital care?

22 MR. MIKHAIL: Would you repeat the
23 question?

24 Q. (By Mr. Biersteker) Is this the only
25 meeting that you had that related to developing

1 estimates of health care costs attributable to
2 smoking incurred by the State of Mississippi for
3 Medicaid, State employees, or unfunded hospital
4 care?

5 MR. MIKHAIL: I object to the form
6 because when you say "you had," with whom?

7 MR. BIERSTEKER: Well, has she had any
8 other dealings with this subject.

9 MR. MIKHAIL: She just finished
10 describing a meeting she participated in or
11 attended at the CDC.

12 MR. BIERSTEKER: Right.

13 Q. (By Mr. Biersteker) And now I want to
14 know if there were any other meetings or
15 discussions you had about that same general topic,
16 apart from the phone conversations with David
17 Burns you've already described and the meeting.

18 A. That was the only meeting I attended,
19 that included CDC people.

20 Q. Have you met on the subject other than
21 with CDC people?

22 A. I met with -- as well as Dr. Thompson --
23 with Lee Young and people from Medicaid and the
24 University Hospital and employee health insurance
25 regarding -- I'm sorry. That was not about cost.

1 It was about document --

2 Q. Production?

3 A. Right, yeah.

4 Q. No. Well, have you had any other
5 meetings or discussions concerning estimates of
6 health care costs paid by the State of Mississippi
7 on account of smoking?

8 A. Gosh, I don't remember. Alan and I met
9 several times to figure out how we were going to
10 get the information that David Burns wanted.

11 Q. And Alan refers to Dr. Penman?

12 A. I'm sorry. Yes.

13 Q. Just to wrap it up, were there any other
14 discussion or meetings that you had about this
15 subject that you can remember?

16 A. Not that I can remember.

17 Q. Let me see if -- this may help or
18 further confuse matters. It's a document that's
19 been marked Exhibit 3 to your deposition, and it
20 -- it is a letter, appears to be a letter from
21 somebody at the Centers for Disease Control to Dr.
22 Thompson here, the Mississippi State Department of
23 Health. And I just want to ask you, there's a
24 reference in the second paragraph, the paragraph
25 states, quote, "We are currently providing

1 technical assistance to your State Epidemiologist,
2 Mary Currier, M.D., and other members of your
3 staff regarding this innovative methodology and
4 its applicability to smoking attributable economic
5 costs as reflected in your state's Medicaid
6 expenditures, unfunded indigent care costs, and
7 State employee insurance costs," close quote. Did
8 I read that accurately?

9 A. I believe so.

10 Q. What technical assistant -- what
11 assistance did the Centers for Disease Control
12 provide?

13 A. Basically they're developing the
14 methodology for estimating costs, and what we were
15 doing is providing the data that they needed in
16 order to come up with the figures for Mississippi.

17 Q. This letter -- well, first of all, do
18 you know what the reference to other members of
19 your staff pertains to?

20 A. I can guess.

21 Q. Do you have an understanding of what
22 that refers to other than a guess? If it's just a
23 guess, I don't want to know.

24 MR. MIKHAIL: Don't guess.

25 THE WITNESS: Okay. I won't guess.

1 Q. (By Mr. Biersteker) Do you have -- well,
2 I'm going to ask you to now. Who do you think it
3 might be?

4 A. Alan Penman and Dick Johnson.

5 Q. This document is dated November of 1995?

6 A. Uh-huh.

7 Q. Were you still providing data to Dr.
8 Burns as late as November of 1995 or to the CDC,
9 for that matter?

10 A. I don't know.

11 Q. To your knowledge, is there anything
12 that you have done in order to assist in
13 developing damage estimates in this case other
14 than provide data to Dr. Burns?

15 A. Basically that's what we've done, is
16 provide data, yes.

17 Q. Is the same true of Dr. Penman and Dick
18 Johnson?

19 A. I believe Dick actually looked at the
20 data tapes to make sure they made sense, if it was
21 data tapes. I think he did look at some data
22 tapes. I'm not sure. I don't recall. And he may
23 have -- I don't know if he sent in his disks or
24 data tapes, but that's all we've done, yes.

25 Q. Returning to smoking prevalence, women

1 constitute a significant majority of Medicaid
2 recipients, don't they?

3 A. I believe so.

4 Q. More so -- there are more women on a
5 percentage basis who participate in Medicaid than
6 there are the general population; is that right?

7 A. I believe so.

8 Q. Blacks in Mississippi smoke less than
9 whites, don't they?

10 A. African-American women do, yes.

11 MR. BIERSTEKER: Why don't we mark as
12 Exhibit 4 the document to which the doctor appears
13 to be referring.

14 [EXHIBIT NO. 4 WAS MARKED AND MADE A
15 PART OF THE RECORD.]

16 Q. (By Mr. Biersteker) Doctor, is this the
17 exhibit to which you were referring, Exhibit 4?

18 A. Yes.

19 Q. A disproportionate percentage of
20 Medicaid recipients are black in Mississippi;
21 isn't that right? Or African-American, whichever
22 term you prefer.

23 A. Yes.

24 Q. The elderly -- by that, I mean over age
25 65 -- smoke less than other age groups of adults,

1 don't they?

2 A. Yes.

3 Q. Again, you're referring to a chart in
4 Exhibit 4?

5 A. Right.

6 Q. A disproportionate number of Medicaid
7 recipients in Mississippi are over age 65, aren't
8 they?

9 A. Actually, I believe people who are over
10 65 are on Medicare.

11 MR. MIKHAIL: Would you be able to
12 repeat the last question before the last one about
13 over 65?

14 [PENDING QUESTION READ BACK.]

15 MR. BIERSTEKER: Why don't we mark this
16 as five.

17 [EXHIBIT NO. 5 WAS MARKED AND MADE A
18 PART OF THE RECORD.]

19 Q. (By Mr. Biersteker) Doctor, I've marked
20 as Exhibit 5 an excerpt from -- I didn't want to
21 carry the whole thing -- a U.S. Department of
22 Commerce National Technical Information Service
23 document entitled Medicaid Statistics Program and
24 Financial Statistics, Fiscal Year 1993. And if
25 you would, Doctor, turn to pages that I numbered

1 97 and 98 in this document. It's actually the
2 second page in, I believe. And if you look down,
3 it's table 25 to the Atlanta Region IV. You find
4 the state of Mississippi there. Do you see where
5 I am?

6 A. Yes.

7 Q. And if you read across, it breaks out
8 Medicaid recipients by age on that page, and the
9 table continues on onto the following page. And
10 there are, as you can see, in the far right-hand
11 column of the exhibit on page 97, 31,190
12 Mississippians age 65 to 74 on Medicaid; is that
13 right?

14 A. That's what this says, yes.

15 Q. And if you turn to the next page, it
16 indicates that there are 30,497 Medicaid
17 participants in Mississippi age 75 to 84?

18 A. Yes.

19 Q. And for age 85 and older, there were
20 19,747 --

21 A. Yes.

22 Q. -- Medicaid recipients. Now, on the
23 first page, page 96, it gives a total number of
24 Medicaid recipients in Mississippi, 504,498; is
25 that right?

1 A. Yes.

2 Q. Now, I've done the math. You can check
3 if you want at a break. If I haven't done it
4 right, my examination is pretty worthless. But
5 when I add up the numbers of people over age 65
6 who participate in Medicaid and divide that by the
7 504,000, I come up with something slightly in
8 excess of 16 percent of the Medicaid recipients
9 are over age 65.

10 A. Uh-huh.

11 Q. Do you know what percentage of the
12 Mississippi population in general is over age 65?

13 A. No, but I can look it up in here.

14 Q. Would you please?

15 A. I can give you the projected population
16 65 and over, not as a percentage but as a raw
17 number.

18 Q. Are the totals there so that you could
19 calculate a percentage?

20 A. Yes.

21 Q. What are the total over aged 65?

22 A. 323,369.

23 Q. And what is -- for what year is this?

24 A. This is projected for 1995, projected
25 probably from the 1990 --

1 Q. Census data?

2 A. -- census data.

3 Q. What's the total population?

4 A. 2,693,053.

5 Q. I come up with about 12 percent. Does
6 that comport with your calculation?

7 A. Yes.

8 Q. So based on these statistics, would you
9 agree that the Medicaid population consists of a
10 disproportionate number of individuals over age
11 65, compared to the general Mississippi
12 population?

13 A. It is a little more than the general
14 population, yes.

15 Q. Is it also true that the young, people
16 under age 24, for example, smoke less than other
17 age groups except the elderly?

18 A. So you're saying 18 to 24 year olds, or
19 are you talking about adolescents as well?

20 Q. Well, the data you're referring to is
21 the BRFSS data, B-R-F-S-S?

22 A. We call it BRFSS.

23 Q. I think I will I stick with my
24 pronunciation. I was referring to 18 to 24 year
25 olds, adults.

1 A. They smoke slightly more than those
2 people over 65.

3 Q. Right. But --

4 A. It looks like it's a little bit less
5 than the average for population as a whole.

6 Q. Except the ages?

7 A. Right.

8 Q. A disproportionate number of Medicaid
9 recipients are under the age of 24, aren't they?

10 A. Have you done these calculations as
11 well?

12 Q. I have. Actually, under the age of 21.
13 If you'll look at, again, pages 96 in Exhibit --

14 MR. MIKHAIL: Five.

15 Q. (By Mr. Biersteker) -- 5.

16 A. That would be my guess anyway, yes.

17 Q. You can add up the participants from age
18 zero through 20?

19 A. Yes.

20 Q. Which is what I did. And, again, if my
21 math is wrong -- but according to my calculations,
22 I got about 53 percent of the Medicaid recipients
23 are under the age of 21.

24 A. Uh-huh.

25 Q. That would be a higher percentage than

1 would be reflected in the Mississippi population
2 generally in that age group, wouldn't it?

3 A. Yes.

4 Q. The never married smoke less than any
5 other marital group, don't they?

6 A. I don't know, and I don't think I have
7 that with me. I do. Here it is. What year are
8 we looking at? Any year in particular?

9 Q. I was looking at 1992. If you have data
10 for more years, that's fine.

11 A. Yes, it's less than the population in
12 general.

13 Q. Right. And it's less than for any other
14 marital status group as well?

15 A. Yes.

16 Q. A large percentage of Medicaid
17 recipients are unmarried, aren't they?

18 A. As I understand it.

19 Q. It's a qualification to receive Aid to
20 Families with Dependent Children that you be a
21 single-parent household, isn't it?

22 A. I don't know.

23 Q. Would you agree that most Mississippi --
24 strike that. Would you agree that a
25 disproportionate percentage of Mississippi

1 Medicaid recipients are likely to be black,
2 female, and either over the age of 65 or under the
3 age of 20?

4 A. I would agree with -- it is my
5 understanding that a disproportionate portion of
6 the Medicaid population is African-American,
7 young, and unmarried. I don't know about the over
8 65.

9 Q. We reviewed that data, didn't we?

10 A. Right, but I don't know that they're
11 single and female and unmarried.

12 Q. Don't these data suggest that smoking
13 prevalence in the Medicaid population is likely to
14 be lower than in the Mississippi general
15 population?

16 A. I don't know. It seems that there's
17 evidence in both directions. As you pointed out,
18 never married has -- the people who are never
19 married have a lower proportion of smokers,
20 according to BRFSS data. On the other hand, if
21 you look at the people with no telephones and the
22 questions that we ask them -- granted, I don't
23 know how many of those were Medicaid. It may be
24 that the general population smokes more than we
25 think it does because we have such a -- in other

1 words, it may be that the BRFSS data
2 underestimates the smoking in the general
3 population.

4 Q. Well, BRFSS was designed to be
5 representative of the Mississippi population,
6 wasn't it?

7 A. It was designed to be as representative
8 as it could be by a telephone survey, yes.

9 Q. Do you think the BRFSS data are
10 unreliable?

11 A. I think they're very reliable. I do
12 think, though, that it doesn't represent the
13 people without phones very well.

14 Q. Are the data that resulted from this
15 person-to-person survey of phoneless individuals
16 in a parking lot in the Delta reflected in any of
17 the documents you produced? And, if so, I'd like
18 to mark that as an exhibit.

19 A. Yes. Actually, it's not the data. It's
20 a summary.

21 Q. All right, a summary.

22 A. It would be -- I only got one file
23 folder. There should have been another one.

24 Q. It's underneath your books there.

25 A. Oh, sorry. It's not in here even.

1 Let's see. Here it is.

2 MR. BIERSTEKER: Why don't we mark that
3 as Exhibit 6 for the record.

4 [EXHIBIT NO. 6 WAS MARKED AND MADE A
5 PART OF THE RECORD.]

6 Q. (By Mr. Biersteker) Let's talk for a
7 moment about diabetes. Based upon the BRFSS data,
8 isn't diabetes more prevalent in women than in men
9 in Mississippi?

10 A. I don't know. I have not looked at
11 that.

12 Q. Why don't I provide you with Exhibit
13 7 --

14 [EXHIBIT NO. 7 WAS MARKED AND MADE A
15 PART OF THE RECORD.]

16 Q. (By Mr. Biersteker) -- which purports to
17 be a summary of the 1992 BRFSS data, and I'm
18 referring to the tabulation on page 21. You see
19 diabetes in the second to the last column?

20 A. Yes.

21 Q. Doesn't it show that diabetes is more
22 prevalent in females than in males in Mississippi?

23 A. Yes.

24 Q. That diabetes is also more prevalent in
25 blacks than in whites in Mississippi?

1 A. Yes, remembering these are all
2 self-reported. It's knowledge of having diabetes.

3 Q. How does that matter?

4 A. It probably doesn't.

5 Q. Diabetes is also more prevalent in
6 individuals over age 65, right?

7 A. Yes.

8 Q. And it's more prevalent in people who
9 have less than a high school education?

10 A. Yes.

11 Q. And it's more prevalent in people
12 earning \$20,000 a year or less, right?

13 A. Yes, that's how it looks.

14 Q. Let's talk about being overweight.
15 Women are more likely to be overweight in
16 Mississippi than men, correct?

17 A. Yes.

18 Q. And blacks are substantially more likely
19 to be overweight than whites?

20 A. Yes.

21 Q. According to this data. Once again,
22 people with less than high school education are
23 more likely to be overweight; is that right?

24 A. Yes.

25 Q. Let's turn to sedentary lifestyle.

1 Women are more apt to have a sedentary lifestyle
2 than a man, but not by a large margin; is that
3 right?

4 A. Yes.

5 Q. Blacks are more likely than whites to be
6 sedentary; is that correct?

7 A. Yes.

8 Q. Not surprisingly, individuals over age
9 65 are more sedentary than people under age 65,
10 right?

11 A. Yes.

12 Q. People with less than a high school
13 education are more sedentary than any other
14 educational group; is that right?

15 A. Yes.

16 Q. And people with income less than \$15,000
17 a year are also more likely to be sedentary,
18 correct?

19 A. Yes.

20 Q. And, in fact, those with income less
21 than 10,000 are even more likely to be sedentary?

22 A. Yes.

23 Q. Let's take a look at high blood pressure
24 on this chart. Women are significantly more
25 likely than men to have high blood pressure,

1 aren't they?

2 A. Yes, or to know about it.

3 Q. Well, again, we earlier talked about the
4 difference between self-reported and actual, and
5 you indicated you didn't think it was material.
6 Do you think it's material here?

7 A. Well, I don't know. I don't know if the
8 difference here is because women are more likely
9 to have high blood pressure or women are more
10 likely to get their blood pressure checked.

11 Q. Do you have any reason to believe that
12 the problem is more acute for high blood pressure
13 than it is for diabetes or being overweight or
14 being --

15 A. Well, it's easy to know if you're fat.
16 You don't have to go to a doctor for that. And I
17 don't -- I'm just saying I don't know.

18 Q. Well, actually, Doctor, isn't --

19 A. There is a formula, yes.

20 Q. There is a formula for computing whether
21 someone is overweight or not, isn't there?

22 A. Yes.

23 Q. It's 20 percent in excess of the ideal
24 weight for your age?

25 A. But you can know what your weight is by

1 weighing yourself at home.

2 Q. But fat is different and more relative
3 characterization than the definition of --

4 A. You're correct. I beg your pardon.

5 Q. Is there any reason to believe, again,
6 that the high blood pressure statistics depart
7 from actual any more or any less than any other
8 statistics contained in this table?

9 A. I don't know.

10 Q. I'm not sure I had an answer to the
11 question. Let me ask again. I'm not doing it to
12 be difficult. I just can't remember. The data do
13 reflect, do they not, that blacks are more likely
14 to have high blood pressure than whites?

15 A. Yes.

16 MR. MIKHAIL: The data's reflected in
17 the page she's looking at on Exhibit 7.

18 MR. BIERSTEKER: That's what we're
19 talking about.

20 MR. MIKHAIL: I wanted to make sure the
21 record is clear, not in general terms.

22 Q. (By Mr. Biersteker) The BRFSS data from
23 1992 also reflect that high blood pressure is also
24 more prevalent in people with less than a high
25 school education by a wide margin, correct?

1 A. Yes.

2 Q. And also more prevalent with individuals
3 with income less than \$10,000, right?

4 A. Yes.

5 Q. Isn't -- well, let's look at
6 cholesterol, and then I think we may be done. The
7 data reflect that blacks are much less likely to
8 have had their cholesterol checked than whites; is
9 that right?

10 A. Yes.

11 Q. And that individuals with less than a
12 high school education are less likely to have had
13 their blood pressure checked than people with more
14 than a high school education?

15 MR. MIKHAIL: Talking blood pressure or
16 cholesterol?

17 MR. BIERSTEKER: Cholesterol. Excuse
18 me. I misspoke. Let me do it over again.

19 Q. (By Mr. Biersteker) That individuals
20 with less than a high school education are less
21 likely to have had their cholesterol checked than
22 individuals in other educational groups?

23 A. Actually, high school graduates is a
24 little bit greater than less than ninth grade
25 education.

1 Q. Yes, you're right, but high school --
2 your correct. You are correct. The group,
3 however, that has -- that is most likely not to
4 have had their cholesterol checked were
5 individuals who have only some high school,
6 correct?

7 A. Correct.

8 Q. The never married in the marital status
9 box are much more likely to have their cholesterol
10 checked than any other marital group?

11 A. That's correct.

12 Q. Your Exhibit 2, description of your
13 opinions, says that you are going to have opinions
14 about the prevalence of smoking and the
15 demographics of smokers among adults in
16 Mississippi.

17 A. Uh-huh.

18 Q. What are your opinions about that
19 subject?

20 A. Basically take it from the Behavioral
21 Risk Factor Surveillance System, just what that
22 shows.

23 Q. Would you summarize, or you think the
24 high points of your opinions are about smoking
25 prevalence in demographics in adults in

1 Mississippi?

2 A. The overall smoking prevalence is about
3 24 percent. It's a little over 20 percent in
4 women and a little more than 27 percent in men.
5 The age group that smokes the most is, as you said
6 earlier, the age groups between the youngest and
7 the oldest, those in the middle.

8 Q. And how are you using -- what's the
9 break-out exactly for the groups?

10 A. For age groups?

11 Q. Yes.

12 A. The highest age group is 45 through 54
13 year olds, and the second highest age group, it's
14 almost exactly the same; it's 25 through 34. This
15 is 1995 data.

16 Q. Are you going to give any other opinions
17 about smoking prevalence in the demographics of
18 smoking among adults in Mississippi?

19 A. Well, basically I can talk about
20 anything that's in the BRFSS data.

21 Q. Is BRFSS the only data on which you are
22 relying for your opinions?

23 A. It's the only data that I currently
24 have. I think there's probably
25 Mississippi-specific data from the Cancer

1 Prevention Study, too, done by the American Cancer
2 Society, but I'm not sure.

3 Q. Is that one of those data sources you
4 might look at?

5 A. Well, some of that data's actually in
6 the Surgeon General's Report from 1989, but it's
7 not state-specific, and I don't know if we
8 actually have state-specific data.

9 Q. I apologize if I've asked this before,
10 but for what years do BRFSS data exist?

11 A. I have it here for '91 through '95.
12 Something was done in 1990, but I don't think it
13 was exactly the same surveillance system.

14 Q. Do you have any information about
15 smoking prevalence or the demographics of adult
16 smokers in Mississippi for any years other than
17 1991 through 1995 inclusive?

18 A. I don't currently, no.

19 Q. I take it you have no opinions, then,
20 for years other than 1991 through 1995?

21 A. That's correct.

22 Q. From 1991 through 1995, has smoking
23 prevalence changed in Mississippi?

24 A. If you look, it's -- it has not changed
25 very much, no.

1 Q. You were referring to an exhibit, I
2 believe?

3 A. Yes --

4 Q. Is this Exhibit 4?

5 A. Yes.

6 Q. Was there any particular page of that
7 exhibit to which you were referring?

8 A. The first four pages are smoking
9 prevalence over time. They're pretty much -- they
10 jump around a little bit, but it pretty much stays
11 the same.

12 Q. Is it your understanding that the BRFSS
13 survey covered only individuals 18 years of age
14 and older?

15 A. Yes.

16 Q. The next portion of your opinions that I
17 wanted to ask you about refers to your opinions
18 concerning smoking prevalence and the demographics
19 of smoking among the state's children and
20 adolescence. If you would, please define for me
21 what you mean by children.

22 A. The only data that I have regarding
23 smoking in people less than 18 is from the Youth
24 Risk Behavior Survey that includes ninth through
25 twelfth graders.

1 Q. All right. So do you have an opinion
2 about smoking prevalence among children in eighth
3 grade or below?

4 A. Not currently, although one of the
5 questions that is asked of the people who are in
6 the youth behavior -- Youth Risk Behavior Survey
7 is when they smoked their first cigarette or at
8 what age, but that doesn't give you prevalence in
9 that age group.

10 Q. For what years do the Youth Risk
11 Behavior Survey data exist? Have I asked you this
12 before? We were confused about whether it was '93
13 or '95. There was some confusion about whether it
14 was '93 or '95.

15 A. The one I have in front of me is 1995.
16 I think there were two others done prior to that,
17 at two-year intervals.

18 Q. So you think one would have been done in
19 1991?

20 A. I think there's a 1991.

21 Q. Have you looked at the survey from those
22 years?

23 A. No. Let me rephrase that. Not for the
24 purpose of the deposition anytime in the recent
25 past.

80

1 Q. You may have looked at it. You just
2 can't remember what the data showed?

3 A. Right.

4 Q. It says that your opinion is that the
5 vast -- quote, "Vast majority of Mississippi's
6 adult smokers started or start smoking as children
7 or adolescents," close quote. What do you mean by
8 started or start?

9 A. There is Behavior Risk Factor
10 Surveillance System information from 1992 that
11 looks at the age at which smokers started smoking
12 regularly.

13 Q. Is this one of the documents that you
14 produced?

15 A. Yes.

16 Q. Help me find it.

17 A. Sure. It should have -- the beginning
18 of it should have 1992 up in the right-hand
19 corner, and it should be the last pages of that
20 group.

21 Q. Is there any particular table to which
22 you refer?

23 A. I'm sorry. It's --

24 MR. BIERSTEKER: Why don't we mark it
25 as an exhibit, first, otherwise we will get --

1 MR. MIKHAIL: Is it not already marked
2 as an exhibit?

3 MR. BIERSTEKER: No, it's not.

4 [EXHIBIT NO. 8 WAS MARKED AND MADE A
5 PART OF THE RECORD.]

6 THE WITNESS: It's pages 182 and 183,
7 the page numbers up in the right-hand corner.

8 Q. (By Mr. Biersteker) Unfortunately, I
9 don't have them.

10 MR. MIKHAIL: She can tell you what
11 table number. You can write it on that if you
12 want.

13 THE WITNESS: It's Table 52. Both
14 pages are Table 52.

15 Q. (By Mr. Biersteker) All right. Those
16 are the last two pages in Exhibit 8?

17 A. Correct.

18 Q. What were the page numbers? I will
19 write them on mine.

20 A. Well, they may be backwards.

21 Q. Never mind then.

22 A. They were backwards in mine.

23 Q. Could you explain to me how the data in
24 these two tables are organized?

25 A. Okay. The denominator is people who

1 have smoked 100 or more cigarettes in their life.

2 Q. Yes.

3 A. And the enumerator is people who started
4 smoking regularly in each one of these age groups
5 that are listed across the top. And if you look
6 across the bottom, you have the totals, so a way
7 to interpret this would be 72.2 percent of the
8 people who have smoked 100 cigarettes or more in
9 their life in this survey started smoking
10 regularly between the ages of 10 and 20.

11 Q. Do you know what percentage of people
12 who have smoked 100 cigarettes or more in their
13 lifetime started smoking under the age of 18 --
14 started smoking regularly? Excuse me. Let me ask
15 the question again because it's not going to be
16 clear. .

17 Do you know what percentage of people
18 who have smoked 100 cigarettes or more in their
19 lifetime started smoking regularly under the age
20 of 18?

21 A. No.

22 Q. You are including, then, in adolescents
23 individuals aged 18 to 20?

24 A. This is as close as I can get to that
25 statement, correct.

1 Q. I'm not sure I know what you mean by
2 that.

3 A. For the purpose of that statement in
4 that -- that you were referring to.

5 Q. In your Expert Disclosure Statement,
6 Exhibit 2?

7 A. Right. This is as close as I can get to
8 addressing that statement currently, yes.

9 Q. You say currently. Is this one of the
10 things you plan to do that you haven't done?

11 A. If I need to. I don't know, in fact,
12 that it can be done, but I think there are ages
13 attached to the BRFSS data.

14 Q. If fewer than 50 percent of adults who
15 smoked more than 100 cigarettes in their lifetime
16 began smoking under the age of 18, would you
17 modify your opinion?

18 A. I might change the way it was worded.

19 Q. How would you change it?

20 A. To actually state the ages and the
21 percentages.

22 Q. In fact, it wouldn't even be a majority,
23 would it?

24 A. If it was less than 50 percent.

25 Q. What percentage of individuals under the

1 age of 18 in Mississippi smoke?

2 A. I can't tell you that precisely.

3 Q. You mentioned earlier that you had some
4 information from the 1995 Youth Risk Behavior
5 Survey.

6 MR. BIERSTEKER: Off the record.

7 [COMMENTS OFF THE RECORD.]

8 Q. (By Mr. Biersteker) Anyway, you said
9 earlier there was some data from YRBS concerning
10 smoking by individuals in ninth to twelfth grade;
11 is that right?

12 A. Yes.

13 Q. Why don't we pull out, if you could, so
14 we can identify for the record the document that
15 discusses that.

16 MR. MIKHAIL: Look over here. See
17 that.

18 MR. BIERSTEKER: I see it is very
19 plainly marked. Nine, please.

20 [EXHIBIT NO. 9 WAS MARKED AND MADE A
21 PART OF THE RECORD.]

22 Q. (By Mr. Biersteker) Doctor, we've marked
23 as Exhibit 9 the document that summarizes the YRBS
24 data for 1995.

25 A. That has to do with tobacco, yes.

1 Q. There was only a portion of the
2 questions --

3 A. Correct.

4 Q. -- that were asked in that survey that
5 are summarized in this exhibit; is that right?

6 A. Yes.

7 Q. And what specific pages?

8 A. I was looking at question 28, which is
9 on page 32, because they're out of order.

10 Q. I don't know that I have a page 28.

11 A. It's question 28, page 32.

12 Q. I apologize. I just wasn't listening
13 carefully. And question 28 is the percentage of
14 respondents who smoked cigarettes on one or more
15 of the past 30 days; is that right?

16 A. Right.

17 Q. That's a very different question, isn't
18 it, than the question asked in BRFSS?

19 A. Yes.

20 Q. You wouldn't expect those percentages to
21 be -- strike that. You wouldn't expect the
22 answers to those questions to be the same?

23 A. No.

24 Q. Did they ask the participants in the
25 YRBS whether they had smoked 100 or more

1 cigarettes in their lifetime?

2 A. I don't know. They did ask the
3 percentage of those who had actually smoked. They
4 did ask of those who had actually smoked, how many
5 had smoked two or more cigarettes per day during
6 the past 30 days, which is question 29. I don't
7 think there's a 100-or-more question.

8 Q. Well, actually --

9 A. Here's the list of questions.

10 Q. Ah, better.

11 A. It's page 30, which is actually behind
12 page 31.

13 Q. Actually, question 29 is a little bit
14 different the way it's phrased on page 32,
15 question, at least if I look at page 30, said,
16 "During the past 30 days, on the days you smoked,
17 how many cigarettes do you smoke per day?"
18 Whereas, the question under data heading is the
19 percentage of respondents who smoked two or more
20 cigarettes per day during the past 30 days, which
21 I -- which is accurate? Do you know?

22 A. I don't know.

23 Q. If the list of questions in the back is
24 the correct phrasing of the question --

25 A. My guess is that they took all the

1 people from question 28 -- this is, you understand
2 it, just an assumption, I guess, although question
3 -- the people in question 28 who smoked all 30
4 days.

5 Q. If you don't know, that's fine.

6 A. I don't know.

7 Q. All right. You would expect the
8 percentage of individuals under the age of 18 that
9 have smoked 100 or more cigarettes a day (sic) to
10 be less than the percentage who answered yes to
11 that question in the 18- to 24-year-old group in
12 BRFSS, wouldn't it?

13 A. I'm sorry. Could you repeat that?

14 Q. BRFSS gives you data on the percentage
15 of people who said that they smoked more than 100
16 cigarettes in their lifetime, right?

17 A. Right.

18 Q. And it does that for the age group 18 to
19 24 specifically, among others?

20 A. Okay.

21 Q. And it's included in your Exhibit 4,
22 percentages for that age group. If that same
23 question, "How many of you have smoked 100 or more
24 cigarettes in your lifetime?" were asked under the
25 age of 18, would you expect the percentage to be

1 lower than the percentage reported by BRFSS in the
2 18- to 24-year-old group, wouldn't you?

3 MR. MIKHAIL: I object to the form.
4 You can try and answer it.

5 THE WITNESS: I don't know.

6 Q. (By Mr. Biersteker) You have no
7 expectation one way or the other? In order for it
8 to be higher in the 18 to 24 year old, that means
9 nobody must have started between 18 and 24. It
10 couldn't be higher in order for it to be the
11 same. Nobody would have --

12 A. Sure, but if it's gone --

13 Q. Let me break it up. We're getting too
14 conversational. The percentage of people who have
15 smoked 100 or more cigarettes in their lifetime in
16 the under-age-18 group cannot be higher than the
17 percentage of people who smoked 100 or more
18 cigarettes in their lifetime in the
19 18-to-24-year-old group, can it?

20 A. Sure. It's a totally different group,
21 and the percentage may be different when they get
22 to 18 to 24.

23 Q. That unlikely. I've looked at the data
24 from '91 to '95, and there wasn't much change in
25 smoking prevalence, right?

1 A. True.

2 Q. At any rate, you have no expectation one
3 way or the other about whether those numbers would
4 be the same or higher or lower?

5 A. I would prefer to look at them instead
6 of guessing.

7 Q. No, I'm not -- I just wondered based
8 upon your experience, training, and education
9 whether you had a prediction, recognizing that it
10 isn't hard data about whether the percentage would
11 be higher or lower?

12 A. It would probably be --

13 Q. In the under 18-year-old group?

14 A. It would probably be lower than the 18-
15 to 24-year-old group.

16 Q. The teenage years are a time of
17 rebellion and risk-taking, aren't they?

18 A. Yes.

19 Q. I want to ask you a few questions about
20 other risky behaviors that individual participants
21 of the YRBS survey were asked about. Since you
22 didn't bring those, I brought a report. It's not
23 -- it may not have everything in it that you
24 have, but it's what the State of Mississippi
25 produced to me. So let me mark that as an exhibit

1 and hand it to you.

2 [EXHIBIT NO. 10 WAS MARKED AND MADE A
3 PART OF THE RECORD.]

4 Q. I hand you what's been marked as Exhibit
5 10, and I wanted to ask you only about a few pages
6 on the document. You may review it quickly, if
7 you like.

8 MR. MIKHAIL: Which pages do you want
9 her to review?

10 MR. BIERSTEKER: I was going to start
11 off by asking about page 38, which talks about
12 alcohol.

13 MR. MIKHAIL: Is there a specific
14 portion of that page you want to review before you
15 ask her a question, or the whole page?

16 MR. BIERSTEKER: Actually, the response
17 summary portion at the bottom is just where I'm
18 going to ask her.

19 THE WITNESS: Okay.

20 Q. (By Mr. Biersteker) Doctor, as I review
21 this, it appears as if more than three-quarters of
22 Mississippi high school students have had a drink
23 in their lifetime; is that right?

24 A. Yes.

25 Q. And that nearly half had a drink in the

1 last month?

2 A. Of the students that were surveyed.

3 Q. Again, this survey is supposed to be
4 representative of the Mississippi high school
5 population, isn't it?

6 A. Right.

7 Q. If it met that objective, then it would
8 be fair to generalize it to the population?

9 A. Right.

10 Q. If the data are not representative of
11 the Mississippi high school population, it would
12 be inappropriate, wouldn't it, to extrapolate
13 these data to that population?

14 A. Yes.

15 MR. MIKHAIL: That sounds very noble of
16 you as a proponent of anecdotal evidence.

17 MR. BIERSTEKER: That's because it's
18 all you'll let us have, Charles.

19 Q. (By Mr. Biersteker) And about 30 percent
20 of the high school students in Mississippi had
21 five or more drinks in a row in the last month?

22 A. Yes.

23 Q. Let's turn to page 55 of this document,
24 Exhibit 10, and I want to discuss sexual
25 activity. The data showed that 67 percent or more

1 of Mississippi high school students had sexual
2 intercourse sometime in their lifetime.

3 A. Yes.

4 Q. Isn't that an astounding figure?

5 MR. MIKHAIL: Object to the form of the
6 question. Go ahead and answer.

7 THE WITNESS: I don't know how it
8 compares to the rest of the Country.

9 Q. (By Mr. Biersteker) Do you think it
10 represents a failure of public health in
11 Mississippi, when that percentage is as high as it
12 is?

13 A. I think we would all prefer it was
14 lower.

15 Q. Is that a yes?

16 MR. MIKHAIL: She answered your
17 question.

18 MR. BIERSTEKER: I'm asking for
19 clarification of the answer, counsel, if that's
20 okay.

21 THE WITNESS: I think that efforts that
22 have been made in the past have not been as
23 effective as we would like them to have been.

24 Q. (By Mr. Biersteker) I see that,
25 according to this data anyway, about half of the

1 respondents have been sexually active in the
2 course of the last month. Do you read the data
3 the same way? Excuse me. Three months.

4 A. Yes.

5 Q. And over a quarter of the respondents
6 became -- had sexual intercourse before the age of
7 13; is that right?

8 A. A quarter of those were sexually active.

9 Q. And of those who were sexually active,
10 over 42 percent didn't use a condom, and over 35
11 percent didn't use any form of birth control?

12 A. Correct.

13 Q. Now, for the most part, high school
14 students in 1995 in Mississippi know about the
15 risk of getting HIV or AIDS from unprotected sex,
16 don't they?

17 A. I hope so, but I don't know that.

18 Q. Doesn't this document, if you turn to
19 page 96, question 54, which is the second from the
20 bottom, Doctor, don't the data indicate that 84.1
21 percent of Mississippi high school students have
22 been taught about AIDS/HIV infection in school?

23 A. Yes.

24 Q. If that figure is correct, why, then, do
25 so many of the students who are sexually active

1 not use a condom?

2 MR. MIKHAIL: Object to the form, but
3 you can try to answer.

4 THE WITNESS: Because behavior's not
5 always changed by knowledge of risk.

6 Q. (By Mr. Biersteker) Sometimes people
7 will do what they want to do, even if they know
8 better?

9 A. Sure.

10 Q. Pregnancy is also a risk of unprotected
11 sex, isn't it?

12 A. Yes.

13 Q. And most high school students in
14 Mississippi in 1995 know that?

15 A. I would assume so.

16 Q. Mississippi, at least in 1993, the last
17 year for which I was able to locate data, had the
18 highest teenage pregnancy rate in the Country,
19 didn't they?

20 A. I'm not sure where we ranked, but it
21 would be either the highest or somewhere close to
22 that, yes.

23 Q. Are you familiar with the Book of the
24 States, Doctor?

25 A. Pardon?

1 Q. Have you ever heard of a document called
2 the Book of the States?

3 MR. MIKHAIL: Could you show it to
4 her?

5 MR. BIERSTEKER: Well, I will in a
6 minute. I'm looking for it. I'm just asking if
7 she's familiar with it. If she's not, I'll show
8 it to her and see if she's familiar with it then.

9 THE WITNESS: I don't know. Not that I
10 recall.

11 MR. BIERSTEKER: Okay.

12 MR. MIKHAIL: What you didn't see is
13 the bewildered look on her face while you were
14 digging through the box.

15 MR. BIERSTEKER: It's a Book of the
16 States that's put out by the Government. Off the
17 record.

18 [OFF THE RECORD.]

19 Q. (By Mr. Biersteker) Actually, it's not
20 by the Government. How about Health Care State
21 Rankings, 1996? Is that something you've heard of
22 before?

23 A. I don't know. I haven't looked at it.

24 Q. Teenagers who are pregnant are more
25 likely to have a low-birth-weight baby than more

1 mature women who are pregnant; is that right?

2 A. I believe so.

3 Q. Venereal disease is also a risk of
4 unprotected sex, right?

5 A. Yes.

6 Q. And, in fact, you referred earlier to
7 STD's. That refers to sexually transmitted
8 diseases?

9 A. Correct.

10 Q. Doesn't Mississippi have the highest
11 rate of syphilis in the Country?

12 A. Yes.

13 Q. Syphilis can cause death, can't it?

14 A. If it's untreated for a long time, yes.

15 Q. And, in fact, Mississippi ranks quite
16 high in terms of deaths due to syphilis, compared
17 to the other states, doesn't it?

18 A. I don't know.

19 Q. Let's turn to page 43 of Exhibit 10.
20 This page summarizes data for 1995 among
21 Mississippi high school students on alcohol and
22 drug use. Actually, drug use, I believe. Right?

23 A. I think so, yes.

24 Q. Okay. It indicates that almost 32
25 percent of Mississippi high school students have

1 smoked marijuana?

2 A. Yes.

3 Q. And about three percent or less have
4 used cocaine?

5 A. Yes.

6 Q. And slightly over two percent have used
7 steroids without a prescription?

8 A. Yes.

9 Q. And about one-and-a-half percent, a
10 little less, have injected illegal drugs?

11 A. Yes.

12 Q. And 7.7 percent have used illegal drugs
13 such as LSD and PCP and heroin?

14 A. Yes.

15 Q. According to the data represented on
16 page 66 of Exhibit 10, Doctor, Mississippi's high
17 school students have a terrible diet, don't they?

18 A. It doesn't look wonderful.

19 Q. Well, if you won't agree with my
20 characterization, let's review some of it. 48.2
21 percent did not eat fruits the previous day?

22 A. Right.

23 Q. 82.4 percent had no green salad the
24 previous day?

25 A. Right.

1 Q. Over half had no cooked vegetables?

2 A. Right.

3 Q. On the other hand, about three-quarters
4 had French fries or potato chips the previous day?

5 A. Right.

6 Q. More than half had hamburgers, hot dogs,
7 or sausage, right?

8 A. Right.

9 Q. And more than half had cookies,
10 doughnuts, pie, or cake?

11 A. Right.

12 MR. BIERSTEKER: Charles is over there
13 saying, What's wrong with that?

14 MR. MIKHAIL: I was going to say, I
15 would think the percentages are higher.

16 Q. (By Mr. Biersteker) Is it true this
17 document reflects lifetime dietary patterns are
18 established during youth?

19 A. I'm sorry. Could you repeat that?

20 Q. Is it true, as this document states just
21 before it enumerates the questions on page 66,
22 that lifetime dietary patterns are established
23 during youth?

24 A. That's what this says.

25 Q. Do you agree?

1 A. It sounds reasonable to me.

2 Q. Do you have any reason to disagree?

3 A. No.

4 Q. Are other patterns of behavior also
5 established during youth?

6 A. I'm sure they are.

7 Q. Having a poor diet is a risk factor for
8 chronic disease, isn't it?

9 A. Yes.

10 Q. It's a risk factor for coronary heart
11 disease, isn't it?

12 A. Yes.

13 Q. Cancer?

14 A. Yes.

15 Q. Risk factor for stroke?

16 A. Yes.

17 Q. Is it a risk factor for diabetes?

18 A. Yes.

19 Q. Is it a risk factor for
20 arteriolosclerosis?

21 A. Yes.

22 Q. Is arteriosclerosis different than
23 atherosclerosis?

24 A. No.

25 Q. Last question or a set of questions on

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1 Exhibit 10, and I'm going to ask you a little bit
2 about physical activity, which I believe is found
3 on pages 72 and 73 of the exhibit. Before I ask
4 you about specific things, is regular physical
5 exercise important to good health?

6 A. Yes.

7 Q. Are there estimates of the number of
8 deaths attribute building to having sedentary
9 lifestyle -- strike that. Are there estimates of
10 the number of deaths in the United States
11 attributable to a sedentary lifestyle?

12 A. I'm sure they are, but I don't know what
13 they are.

14 Q. Could you identify any for me?

15 A. Not off the top of my head.

16 Q. How do epidemiologists typically define
17 sedentary lifestyle? And if you want, you may
18 look at the document. There's a definition here.
19 I just wanted to know if that's the accepted
20 definition.

21 MR. MIKHAIL: Are you still on page 72?

22 MR. BIERSTEKER: It's on one of those
23 two pages. I believe it was, yes. It's the top
24 of page 73.

25 MR. MIKHAIL: 73?

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1 MR. BIERSTEKER: 73. I'm sorry. Did I
2 say 71 or 72?

3 MR. MIKHAIL: 72.

4 MR. BIERSTEKER: I misspoke.

5 MR. MIKHAIL: I don't see anything on
6 page 73.

7 THE WITNESS: I'm not sure. That
8 sounds like what I've heard before, but I'm not
9 sure it's exactly the same as what I've heard
10 before.

11 Q. (By Mr. Biersteker) Let me ask the
12 question as: If you exercise for three times a
13 week, 20 minutes at a time, it was exercising. If
14 it was less than that, you were sedentary. Does
15 that comport with your memory?

16 A. I think that's correct, yeah.

17 Q. By that measure, not quite half of
18 48-plus percent of Mississippi high school
19 students are sedentary, aren't they?

20 A. Right.

21 Q. And 51.2 percent of those folks, or a
22 little more than a quarter of the total, I guess,
23 don't exercise at all, right?

24 A. Right.

25 Q. All right. Let me put Exhibit 10

1 aside.

2 [SHORT BREAK.]

3 MR. BIERSTEKER: All right. Back on
4 the record.

5 Q. (By Mr. Biersteker) I just wanted to ask
6 you one other thing about smoking prevalence, and
7 then we can leave that question. In addition to
8 the specific statements here, there's a sentence
9 at the very top of the page where it indicates
10 that you're going to talk about the nature and
11 extent of tobacco use in Mississippi. Do you see
12 that phrase?

13 A. Uh-huh.

14 Q. Have we already discussed your opinions
15 on this subject?

16 A. I believe so.

17 Q. I mean if there's anything more, I'd
18 like to know about it; but if there isn't, that's
19 fine. Are there any additional opinions you have
20 on smoking prevalence?

21 A. Not that I can think of.

22 Q. Earlier we talked about the
23 communications you have with David Burns and Tom
24 Nevotni and others. Can you tell me everything
25 you know about the statistical model you used to

1 estimate health care costs attributable to smoking
2 in the Mississippi Medicaid, State employee, or
3 charity hospital population?

4 A. I know that it's a statistical model and
5 includes smoking prevalence data and different
6 illnesses associated with smoking and the
7 demographics of the population, but that's all I
8 know.

9 Q. Okay. The next opinion I wanted to ask
10 you about is the specific opinion in the middle of
11 the first paragraph of Exhibit 2 where the
12 document says that you are expected to testify
13 that, quote, "Cigarette smoking is the leading
14 cause of preventable death in Mississippi," close
15 quote. Do you have estimates of deaths
16 attributable to cigarette smoking in the state?

17 A. I have just rough estimates of some of
18 the larger categories. It doesn't include --
19 there are a lot of things this doesn't include.
20 If you'll look on the -- do you have --

21 MR. BIERSTEKER: Well, let's mark it
22 for the record. Otherwise, we'll -- I'll get back
23 to my office and somebody will say, You did what?

24 [EXHIBIT NO. 11 WAS MARKED AND MADE A
25 PART OF THE RECORD.]

1 Q. (By Mr. Biersteker) Doctor, for the
2 record, is Exhibit 11 the rough calculations to
3 which you refer?

4 A. Yes. And it's not at all inclusive of
5 everything that relates back to smoking. I just
6 wanted a rough idea of looking at some of the
7 major categories.

8 Q. Well, why don't you explain to me what
9 Exhibit 11 represents, please.

10 A. Okay. If you look at the first column,
11 those are population attributable risks from the
12 1989 Surgeon General's Report that originated from
13 the Cancer Prevention Study to -- for each one of
14 those diseases.

15 Q. Is it the Relative Risk or the
16 population attributable risk?

17 A. It's the population attributable risk.

18 Q. So --

19 A. And the first column is for males. I'm
20 sorry.

21 Q. So in order to make sure I understand
22 that, the first column for males is -- that number
23 is calculated based upon smoking prevalence in the
24 Nation as a whole?

25 A. Yes. So this is very rough.

1 Q. All right. I understand now the first
2 column. Actually, there's a column before that
3 that lists --

4 A. I'm sorry,, that lists the diseases.

5 Q. Right. CHD is coronary heart disease;
6 is that right?

7 A. Yes.

8 Q. COPD is what?

9 A. Chronic obstructive pulmonary disease.

10 Q. If you could just go down the column,
11 tell me what each of those stand for, I'd
12 appreciate it.

13 A. The next one is cancer of the lip, oral
14 cavity, and pharynx. The next is cancer of the
15 larynx, then cancer of the esophagus, then lung
16 cancer, pancreatic cancer, cerebrovascular disease
17 in less than 65 year olds, and cerebrovascular
18 disease in those greater than 65 years of age.

19 Q. All right. Thank you. Then I guess --
20 what would be the third column? What are those
21 numbers?

22 A. Number of deaths in Mississippi
23 according to the vital statistics in each one of
24 those categories I just listed in 1995.

25 Q. And then I take it that the last three

1 columns are the same thing except for women?

2 A. Correct.

3 Q. They correspond to the same --

4 A. Yes.

5 Q. -- as for the males, right? You said
6 this was very rough.

7 A. Yes.

8 Q. In what respects is it rough?

9 A. It would be better to use
10 Mississippi-specific smoking prevalence. However,
11 the prevalences we have are from current data as
12 opposed to data years ago, which would affect
13 outcomes of today.

14 Q. Why don't you elaborate on that.

15 A. People who smoked -- and in addition --
16 no, it doesn't -- okay. The population
17 attributable risks are related to current smoking
18 prevalence and then also looks at former smokers
19 and their risks. But a person who has a stroke
20 today is one of the people who smoked X number of
21 years ago up to the present, and there are a lot
22 more people who smoked -- smoking has gone down
23 across the Country. All we have from BRFSS data
24 is current smoking. We don't have data on smoking
25 prevalence, or I don't, from years ago, and it

1 would be nice to have that to put into this.

2 Q. BRFSS doesn't ask about former smoking?

3 A. About 20 percent of the people in the
4 Mississippi population, according to BRFSS, are
5 former smokers, yes.

6 Q. So it does ask about it. All right. So
7 the estimate is rough because it does not include
8 Mississippi smoking prevalence numbers?

9 A. It's National.

10 Q. It's National?

11 A. Right.

12 Q. And the estimate is rough because it is
13 based on 1989 smoking prevalence and 1989 disease
14 data -- actually, maybe not -- well, you tell me.
15 I'm not explaining it well, and that's because I
16 don't understand it well. You were talking about
17 current smoking versus former smoking, and I'm not
18 sure how that makes these estimates run, so could
19 you elaborate, please?

20 A. Well, I'm not explaining it well, and it
21 may be because I'm not absolutely clear on it.
22 They actually do include former smoking as a part
23 of the population attributable risk, but it is
24 National smoking data as opposed to Mississippi
25 smoking data.

1 Q. What I got?

2 A. Right.

3 Q. Is that -- is the fact that the data in
4 Exhibit 11 relies upon National smoking prevalence
5 data as opposed to Mississippi-specific data the
6 only respect in which these calculations are
7 rough?

8 A. They are also rough because it's not an
9 inclusive list of diseases related back to
10 smoking.

11 Q. What additional diseases would you put
12 on this list?

13 A. Well, I can't be sure, without looking
14 into it further; but environmental tobacco smoke
15 and the illnesses that relate to that and smoking
16 in pregnancy, things like that, were not on this
17 list.

18 Q. Would you include any diseases not
19 identified in the 1989 Surgeon General's Report
20 which you brought a copy of today -- which you
21 brought a copy of?

22 MR. MIKHAIL: Can you show her a
23 particular part?

24 MR. BIERSTEKER: I think there's a
25 chart of the 1989 Surgeon General's Report, and it

1 may be the page that you flagged, Doctor.

2 MR. MIKHAIL: I'd like her to look at
3 it.

4 MR. BIERSTEKER: That lists diseases
5 that the Surgeon General thought were related to
6 smoking.

7 MR. MIKHAIL: Is that what you tabbed?

8 THE WITNESS: No. This was -- the
9 chart that I was looking at for attributable risks
10 is Table 11 on page 156.

11 Q. (By Mr. Biersteker) Table 11, page 156,
12 of the 1989 Surgeon General's Report?

13 A. Yes.

14 Q. All right. So you would add to this
15 list diseases associated with environmental
16 tobacco smoke?

17 A. Yes.

18 Q. Do you know what those diseases are?

19 A. I -- I couldn't discuss it off the top
20 of my head. I haven't reviewed that.

21 Q. What would you review in order to
22 determine what those diseases are?

23 A. I believe there's another Surgeon
24 General's Report on environmental tobacco smoke.
25 Is there not?

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1 MR. BIERSTEKER: Off the record.

2 [COMMENTS OFF THE RECORD.]

3 Q. (By Mr. Biersteker) All right. Are you
4 able to tell me any of the diseases that have been
5 associated with environmental tobacco smoke?

6 A. Lung cancer.

7 Q. Okay. Any others?

8 A. No.

9 Q. You mentioned smoking and pregnancy.
10 What conditions have been associated with smoking
11 in pregnancy?

12 A. Small-for-gestational-age babies, not
13 gain enough weight.

14 Q. Anything else?

15 A. Well, after the baby's born, SIDS
16 deaths, and, as I understand it, there are more
17 respiratory infections in children of people who
18 smoke.

19 Q. The latter two might actually go under
20 the environmental tobacco smoke category?

21 A. Sorry.

22 Q. Don't apologize. Are there any other
23 diseases that, as you sit here today, you would
24 add to this list?

25 A. I'm sure there are. I just can't think

111

1 of them.

2 Q. If that they were important, would you
3 remember them?

4 A. At this point, I don't know.

5 MR. MIKHAIL: How much longer do you
6 have?

7 MR. BIERSTEKER: I could go on on this
8 topic, and I probably will.

9 MR. MIKHAIL: Want to break then?

10 MR. BIERSTEKER: Anytime is fine with
11 me.

12 MR. MIKHAIL: Let's do that.

13 [COMMENTS THE RECORD.]

14 [NOON RECESS.]

15 Q. (By Mr. Biersteker) Doctor, one thing I
16 want to ask you just a housekeeping matter before
17 we get too far down the pipe and I forget.

18 Exhibit 7, as I was looking at it over the lunch
19 hour, appears to be an excerpt from document --
20 Exhibit 6. Excuse me. The one dealing with the
21 person-to-person survey.

22 A. Okay.

23 Q. And I don't know --

24 MR. BIERSTEKER: Maybe, Charles, you
25 know, but I don't know that that's been produced

1 to us in discovery and if -- I would ask, just
2 because it might be more information that relates
3 to how the survey was conducted, et cetera, if we
4 could have a complete copy of Exhibit 6.

5 MR. MIKHAIL: Is that, in fact, a
6 portion of the document?

7 THE WITNESS: I don't know. It was
8 just given to me by Ellen. I don't know.

9 MR. BIERSTEKER: It starts on page
10 seven. The first page is numbered seven, and it
11 stops in mid-sentence on the last page.

12 MR. MIKHAIL: We can check, Peter. I
13 feel certain that if Ellen is using it that it
14 would have been something that was produced. But
15 if you want, we can certainly check on that.

16 MR. BIERSTEKER: I'd appreciate it.
17 Thank you. Off the record.

18 [COMMENTS OFF THE RECORD.]

19 Q. (By Mr. Biersteker) Back to Exhibit 11.
20 You may have answered this, Doctor, and if you
21 have, I apologize. But this -- is there any way,
22 other than the failure to use Mississippi current
23 smoking prevalence data and the omission of
24 certain diseases in which Exhibit 11 is still
25 rough?

1 A. Sure. I think you could -- you could do
2 it by age groups and you could do it by race and
3 it would be more exact.

4 Q. That was actually one of my questions.
5 When -- did you just apply this population
6 attributable fraction to the total deaths without
7 doing it for each age.sex category?

8 A. Yes.

9 Q. Is there any other respect in which
10 Exhibit 11 is rough?

11 A. I'm sure someone who is an epidemiology
12 professor could think of other things, but I can't
13 think of any.

14 Q. In calculating relative risk ratios that
15 go into the population attributable risks we
16 discussed earlier, is any attempt made to control
17 for potential confounders?

18 A. I don't know. Those relative risks,
19 like I said, that were used in this came out of
20 the '89 Surgeon General's Report, and I'm not
21 sure.

22 Q. You're not sure whether any attempt was
23 made to control the confounder?

24 A. Right.

25 Q. If confounding exists and is not

1 controlled for, then these calculations would
2 attribute to smoking deaths that were not, in
3 fact, caused by smoking, wouldn't they?

4 A. Yes.

5 Q. Are there differences between smokers
6 and nonsmokers other than their smoking?

7 A. Probably.

8 Q. I think we talked about some earlier;
9 for example, smokers tend to be less well-educated
10 than nonsmokers, right?

11 A. Uh-huh.

12 Q. Smokers are more likely to be single
13 than nonsmokers, is that right, or don't you know?

14 A. Never-married people are more likely to
15 smoke.

16 Q. Yeah. Actually, the never married are
17 least likely to smoke. Right? The BRFSS --

18 A. Oh, right, least likely. You're
19 correct. I'm sorry.

20 Q. On the other hand, the individuals who
21 are separated or divorced or cohabitating with
22 somebody are more likely to smoke, right?

23 A. Yes.

24 Q. Smokers tend to be more sedentary than
25 nonsmokers, don't they?

1 A. That would be my guess.

2 Q. Have you ever seen data on that that you
3 can remember?

4 A. No.

5 Q. Do you remember seeing something to that
6 effect in the '89 Surgeon General's Report?

7 A. I don't remember.

8 Q. Do you know if smokers are more likely
9 to consume a high-fat diet compared to nonsmokers?

10 A. I don't know.

11 Q. Do you know whether smokers are more
12 likely to have a low-fiber diet compared to
13 nonsmokers?

14 A. I don't know.

15 Q. Do you know if smokers are more or less
16 likely than nonsmokers to use their seat belts?

17 A. I can guess, but I don't know.

18 Q. What would be your surmise?

19 A. Can I guess?

20 MR. MIKHAIL: You can guess.

21 THE WITNESS: My guess would be that
22 they would be less likely to use seat belts; but I
23 don't know that.

24 Q. (By Mr. Biersteker) Do you think smokers
25 are more or less likely to have vitamin

1 deficiencies?

2 A. I don't know.

3 Q. Do you know if smokers are more or less
4 likely to be either 20 percent over or under
5 weight?

6 A. I don't know.

7 Q. Do you know if smokers are more or less
8 likely than nonsmokers to eat breakfast regularly?

9 A. I don't know.

10 Q. Do you know if smokers or nonsmokers are
11 more or less likely to have social support
12 mechanisms? Do you understand my question?

13 A. Yes.

14 Q. You do?

15 A. I don't know.

16 Q. Do you know of any mortality risk factor
17 that is more common in nonsmokers than it is in
18 smokers?

19 A. I'm sorry. I don't know.

20 Q. The relative risk numbers used to
21 compute the population attributable fractions in
22 Exhibit 11, I believe you said, came from the
23 Surgeon General's Report?

24 A. Right.

25 Q. And those, in turn, were derived from

1 the Cancer Prevention Survey, too?

2 A. Yes.

3 Q. Can relative risks vary from one
4 population to another?

5 A. Yes.

6 Q. Is it fair to say that the healthier the
7 nonsmoking population that's studied, the higher
8 the relative risk for smoking will be?

9 A. I'm sorry. Can you repeat that?

10 Q. Sure. Is it true that the healthier
11 population of nonsmokers is, the higher the
12 calculated relative risk of smoking will be?

13 A. If the smoking population is the same in
14 both examples, if you have a very healthy
15 nonsmoking population and an unhealthy nonsmoking
16 population, and your enumerator, the smoking
17 population, the risk -- the smoking population
18 stays the same across those, then the relative
19 risk would be greater in the one with the
20 denominator, the nonsmoking population that is
21 very healthy.

22 MR. BIERSTEKER: I'm going to ask you
23 to read that back, please.

24 [PREVIOUS QUESTION READ BACK.]

25 Q. (By Mr. Biersteker) Let me ask, Doctor,

1 could you please clarify your answer to the prior
2 question?

3 A. I'll try. You could say the relative
4 risk is the incidence of disease in an exposed
5 compared to an unexposed population. If your
6 unexposed population, or the nonsmoking
7 population, is otherwise very, very healthy, your
8 relative risk is going to be higher if your
9 smoking population is different in other ways from
10 your nonsmoking population, has more risk.

11 Q. Let's maybe walk through an example and
12 see --

13 A. Okay.

14 Q. -- see if that helps crystalize it.
15 Let's assume we've got a population of nonsmokers
16 with a death rate of .01 and a death rate in a
17 population of smokers of .02. The relative risk
18 of smoking in that population would be two, right?

19 A. Correct.

20 Q. Now let's say that everybody starts
21 exercising, both the smokers and the nonsmokers,
22 and that it results in an equal reduction in the
23 death rate in both populations. So let's say that
24 the nonsmoking death rate falls to .005 and the
25 smoker death rate falls to .015, same absolute

1 reduction of death rate of both populations,
2 right?

3 A. Uh-huh.

4 Q. The relative risk in the hypothetical
5 new population, when everybody starts exercising,
6 is now three; isn't that right?

7 A. Uh-huh. I mean yes. Sorry.

8 Q. So now let me ask a question building
9 off that example which is, I think, slightly
10 different than the one I asked before. Is it true
11 that the healthier the population, the higher the
12 relative risk of smoking will be, assuming that
13 the absolute difference in the death rate between
14 smokers and nonsmokers remains the same?

15 A. Not necessarily.

16 Q. Why not?

17 A. Well, your example here, you've
18 decreased it by subtraction -- you've decreased
19 the incidence by subtraction as opposed to by
20 proportion.

21 Q. What I did was I assumed the absolute
22 difference --

23 A. Was .05.

24 Q. -- was the same. That was in my
25 question.

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1 A. I'm sorry.

2 MR. BIERSTEKER: Could we repeat the
3 question?

4 [PREVIOUS QUESTION READ BACK.]

5 THE WITNESS: If the difference in
6 death rates goes down an absolute amount as
7 opposed to a proportionate amount, then the
8 relative risk will be greater and the healthier
9 the population, in this example.

10 Q. (By Mr. Biersteker) Well, isn't it just
11 mathematically true as a general proposition?

12 A. Yes, sure.

13 Q. Do you know one way or the other whether
14 the changes in death rate for different risk
15 factors would result in proportionate or
16 numerically equal reductions in the smoking and
17 nonsmoking populations?

18 A. My guess would be proportionate, but I
19 don't know that for a fact.

20 Q. Is it an educated guess? Is it based on
21 anything, or is it just something you think is
22 probably right?

23 A. It's a guess.

24 Q. Okay. Does -- do you know the name of
25 the software that generates smoking -- estimates

1 of smoking attributable death?

2 A. SAMMEC.

3 Q. Correct, S-A-M-M-E-C. Does SAMMEC also
4 calculate medical care costs attributable to
5 smoking?

6 A. I believe it calculates the costs
7 related to the deaths but not the morbidity. I'm
8 not sure of that.

9 Q. Do you know what SAMMEC stands for?

10 A. Smoking Attributable -- that's the end
11 of it.

12 Q. Okay. Thanks. Doctor, if everybody in
13 Mississippi quit smoking in 1965, would total
14 medical care costs in the state today be higher or
15 lower?

16 A. I don't know.

17 Q. Have you made any estimates of deaths in
18 Mississippi attributable to anything other than
19 smoking?

20 A. No.

21 Q. Have you seen estimates of deaths in
22 Mississippi attributable to any other lifestyle
23 choice?

24 A. Not that I can recall offhand.

25 Q. If you haven't made those calculations,

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1 then you must not have compared the estimates of
2 deaths attributable to smoking as reflected in
3 Exhibit 11 to estimates of deaths caused by any
4 other risk factor, right?

5 A. That's correct.

6 Q. If you haven't made that comparison, is
7 it fair to say that you have no empirical basis
8 for the statement in your Expert Disclosure
9 Statement, Exhibit 2, that cigarette smoking is
10 the leading cause of preventable death in
11 Mississippi?

12 A. That is currently true, yes.

13 Q. Is that something that you intend to
14 investigate further before trial?

15 A. Yes.

16 Q. How are you going to do that?

17 A. I don't know.

18 Q. How are you going to find out?

19 A. I'm not sure.

20 Q. Exhibit 2, again, Doctor, advises in the
21 first paragraph that you will discuss, quote, the
22 identity -- wait a minute. Let me back up.

23 MR. MIKHAIL: Do you have that
24 statement in front of you, Dr. Currier?

25 THE WITNESS: Yes.

1 Q. (By Mr. Biersteker) The last clause of
2 the first paragraph said that you're going to,
3 quote, "describe the usual methods and data
4 sources used by state epidemiologists in
5 characterizing disease within a state, and how
6 surveys in epidemiologic studies are used." I
7 guess my first question in this area is: What do
8 you mean by characterizing disease within a state?

9 A. Looking at the prevalence and incidence,
10 describing where it occurs.

11 Q. Is this morbidity data as opposed to
12 mortality?

13 A. For -- within our reportable disease
14 system, we have morbidity data, yes.

15 Q. Is that what you're referring to and
16 then describing in detail --

17 A. Yes.

18 Q. -- the demographic burden?

19 A. Right.

20 Q. Has anybody characterized
21 smoking-related diseases in Mississippi?

22 A. I know that there was a Mississippi
23 Morbidity Report that used the SAMMEC software --
24 and I'm not sure when it was done; it was years
25 ago -- Anita Gunter wrote. But I believe that's

1 -- that's the only time I can remember.

2 Q. Is Anita Gunter a Mississippi State
3 Department of Health employee?

4 A. Yes. She runs the Bureau of Public
5 Health Statistics.

6 Q. And where did this article appear?

7 A. The Mississippi Morbidity Report.

8 Q. That article concerned morbidity?

9 A. It was mortality related.

10 Q. I'm a little confused, so let me ask
11 this question: Has anybody attempted to estimate
12 increased morbidity in the state of Mississippi
13 attributable to smoking?

14 A. Not that I know of.

15 Q. Are you going to offer any opinions
16 concerning the morbidity impact of smoking as
17 contrasted to mortality of things?

18 A. The only data I have that's
19 Mississippi-specific is mortality data. The only
20 thing I could say about morbidity would be based
21 on National statistics. I don't have any data on
22 Mississippi.

23 Q. Are you going to discuss National
24 morbidity statistics -- are you going to offer
25 opinions concerning -- strike that.

1 Are you going to offer opinions
2 concerning National morbidity statistics?

3 A. I don't know.

4 Q. If I asked you today, do you have any
5 opinions concerning National morbidity statistics,
6 what would your answer be?

7 MR. MIKHAIL: I object to the form of
8 the question. Opinion, what kind of opinion?

9 Q. (By Mr. Biersteker) Do you have any
10 opinions concerning National morbidity statistics?

11 MR. MIKHAIL: I still object to the
12 form of the question. Opinion about the
13 statistics for what?

14 MR. BIERSTEKER: Smoking. Come on,
15 Charles.

16 MR. MIKHAIL: I'm talking -- you asked
17 the question. It's on the record. You asked her
18 if she has any opinion about National statistics.

19 Q. (By Mr. Biersteker) Do you have any
20 opinion about increased morbidity attributable to
21 smoking? Let me ask the question again.

22 A. Okay.

23 Q. Do you have any expert opinion
24 concerning increased morbidity attributable to
25 smoking?

1 A. The data that I've looked at's been
2 mortality data. I've not looked at morbidity
3 data.

4 Q. Please describe to me your opinions
5 concerning the usual methods and data sources used
6 by state epidemiologists in characterizing
7 diseases within the state.

8 A. Any disease?

9 Q. I read from Exhibit 2. I just want to
10 know what your opinions are, what that refers to.
11 If it's something we've already discussed and
12 there's nothing new to discuss, let me know and we
13 can end it. But if there's another opinion out
14 there, this doesn't really tell me what it is, and
15 I'm trying to get to you describe it.

16 A. The usual things that state
17 epidemiologists look at are Reportable Disease
18 Systems, BRFSS data for prevalence of risk
19 behaviors, mortality data. Different states may
20 have different surveys and different registries
21 they can use like Births Defects Registries and
22 Cancer Registries. For some things, National
23 statistics are used and applied to states because
24 there may not be a specific state-obtained data.
25 Some states have sentinel systems where they can

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1 look at whether or not a particular disease is
2 going up or down just in a few areas instead of
3 having to collect every single case.

4 Q. Have you now completely described your
5 opinions concerning the usual methods and data
6 sources used by state epidemiologists who
7 characterize their diseases within a state?

8 A. I can't say whether that's a
9 comprehensive list of what every state
10 epidemiologist uses, but it's what I can think of
11 off the top of my head.

12 Q. I'd like to go through some of these and
13 see. Mississippi has a Reportable Disease System,
14 right?

15 A. Yes.

16 Q. Mississippi participated in at least
17 some of the BRFSS surveys?

18 A. Yes.

19 Q. Did it participate in all of them?

20 A. I think Nationally there were other
21 states who started them earlier than we did.

22 Q. Mississippi has mortality data, I guess,
23 through the Vital Statistics?

24 A. Yes.

25 Q. Mississippi has just recently this year

1 started a Cancer Registry, right?

2 A. Right. Actually, the background and
3 groundwork for that Cancer Registry was started
4 longer ago than this year, but this is the first
5 year we've started collecting data.

6 Q. Is there a registry for birth defects in
7 the state?

8 A. No.

9 Q. Is there a -- as you described it, I
10 think, sentinel data system in place?

11 A. We have two, one for influenza, using
12 physicians across the state to see how many cases
13 of flu-like illness they see on a weekly basis.
14 That's starting about now. We'll go through
15 March. And then we have an encephalitis -- a
16 sentinel system for encephalitis survey that's
17 hospital based.

18 Q. The next portion, again reading from
19 Exhibit 2, is you're going to explain, quote, "how
20 surveys and epidemiologic studies are used," close
21 quote. How are they used?

22 A. Well, one thing we do with them is try
23 and let the population know about things that we
24 found out. For example, with our sentinel
25 surveillance system for influenza, if we find out

1 that there is flu, we announce it to the press and
2 say it started here. It's beginning. Please get
3 your flu shots if you haven't. So it's to let the
4 public know and to let physicians know. Another
5 way they're used is to find out where
6 interventions need to be applied and to find out
7 where more resources need to be obtained possibly.

8 Q. I'm sorry. Where more resources need to
9 be --

10 A. Obtained, for what more resources need
11 to be retained.

12 Q. Is there any other way in which surveys,
13 epidemiology studies are used by state
14 epidemiologists that you can think of?

15 A. I'm sure there are. We use them -- we
16 talked earlier about the organizations that work
17 up studies and then make recommendations, like the
18 CDC and ACIP and people like that. We use them
19 sort of secondarily like that when we're making
20 policies regarding immunizations and activity
21 control.

22 Q. Since 1988, what public health
23 interventionist has the Mississippi State
24 Epidemiologist, your staff, conducted?

25 MR. MIKHAIL: Hasn't that been asked

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1 and answered?

2 MR. BIERSTEKER: If it has, I'm not
3 doing it intentionally. I'm not sure it has.

4 THE WITNESS: What interventions?

5 Q. (By Mr. Biersteker) Yeah. I think I
6 asked about major projects before. Now I'm asking
7 about -- yeah, public --

8 A. In regard to --

9 Q. Well, let me back up. One of the ways
10 in which state epidemiologists use BRFSS and
11 Reportable Disease System data and mortality data
12 and sentinel data is to determine where
13 interventions are needed, right?

14 A. Right.

15 Q. In Mississippi, have those data been
16 used to determine whether interventions are needed
17 since 1988, with your ten-year beginning?

18 A. Sure. We do it all the time. When we
19 have our encephalitis system in place, if we find
20 out about it, confirm an E-string encephalitis
21 case, we tell the people in that area what's going
22 on and let them know what they can do to keep from
23 getting it themselves. And when we find out --
24 like I said, when we find out that flu is in the
25 area, one intervention would be to let people know

1 so they can go ahead and get their flu shot, so
2 physicians can know and start treating
3 appropriately. We do it all the time when we --
4 if wouldn't be based on -- but when we find out
5 about cases, particular diseases for which we
6 provide immediate intervention for the contacts,
7 that's part of our Reportable Disease System, and
8 we apply it daily from contacts to cases of
9 diseases that we can do something about the spread
10 of.

11 Q. Are you finished?

12 A. Yes.

13 Q. I apologize if I've asked this before,
14 but I want to ask it again in case I didn't. I
15 don't think that I have. Since 1988, has there
16 ever been a public health intervention related to
17 smoking?

18 A. Out of Ellen Jones's office, they've
19 been active in smoking prevention activities.

20 Q. Has there ever been -- do you know of
21 any of your own knowledge, or is there something
22 that occurs separately from you?

23 A. I haven't really participated in the
24 intervention activities, if that's what you're
25 asking.

1 Q. I was wondering whether you were in a
2 position to at least enumerate them, whether
3 you --

4 A. No, I'm sorry.

5 MR. MIKHAIL: I think she answered
6 earlier. It was a different position that handled
7 this sort of thing, not the State Epidemiologist.

8 MR. BIERSTEKER: That's fine.

9 MR. MIKHAIL: Is that correct, Doctor?

10 THE WITNESS: Yes, sir, it is.

11 Q. (By Mr. Biersteker) Doctor, the
12 calculation in Exhibit 11 is one of attributable
13 deaths. Is there another way to analyze causes of
14 death?

15 A. How do you mean?

16 Q. Let me ask this: Have you ever heard
17 the expression "years of potential life lost"?

18 A. Yes.

19 Q. Is that a different nature of an
20 activity or disease on morbidity in the
21 population?

22 A. Yes.

23 Q. Do you know what the leading cause of
24 years of potential life lost in Mississippi is?

25 A. No.

1 Q. Do you have an expectation as to what it
2 might be?

3 A. You mean when you're talking about cause
4 of death as far as like CVD or unintentional
5 injury or something like that as opposed to
6 smoking?

7 Q. Yes.

8 A. I'm not sure.

9 Q. Would you expect it to be accidents or
10 homicides, because they tend to affect younger
11 people?

12 A. It could be unintentional injuries
13 because, yes, they affect people who are younger.

14 Q. Is coronary heart disease the biggest
15 cause of death in terms of disease within the
16 state of Mississippi?

17 A. I think heart disease is, but let me
18 look. The largest category in the Vital Records
19 book for 1995 is diseases of the circulatory
20 system. It includes heart disease.

21 Q. Do the data reflect what percentage of
22 the deaths are due to heart disease -- excuse me,
23 diseases of the circulatory system?

24 A. What percentage of all the deaths?

25 Q. Yes.

1 A. 12,042 out of 26,910.

2 Q. Something in excess of 25 percent?

3 A. Yes, almost half.

4 Q. Half. Let's talk for a moment about
5 hypertension. Hypertension is associated with a
6 stroke, right?

7 A. Yes.

8 Q. And heart disease generally?

9 A. I believe so.

10 Q. Is it also associated with kidney
11 failure?

12 A. I believe so.

13 Q. Doesn't Mississippi have the highest
14 prevalence of high blood pressure in the Nation?

15 A. I don't know.

16 MR. BIERSTEKER: Mark that as the next
17 exhibit.

18 [EXHIBIT NO. 12 WAS MARKED AND MADE A
19 PART OF THE RECORD.]

20 Q. (By Mr. Biersteker) Doctor, have you
21 ever seen Exhibit 12 before?

22 A. In passing, I think I have seen it.

23 Q. This was a report by the Mississippi
24 State Department of Health in 1990 on Minority
25 Health in Mississippi; is that right?

1 A. Yes.

2 Q. The page dealing with hypertension I
3 wanted to refer you to is on page 13 of the
4 document, if you'll look at the Bates number at
5 the bottom, MSDH 0049604. This report states, at
6 least based on 1976 to 1980 data, that Mississippi
7 had the highest high blood pressure in the Nation,
8 right?

9 A. That's what it says.

10 Q. Do you have any reason to disagree?

11 A. No.

12 Q. Medically, hypertension can be managed
13 in many, if not most, cases, can't it?

14 A. I believe so.

15 Q. For example, you can take medication to
16 control your high blood pressure?

17 A. Yes.

18 Q. Of course, to be treated, somebody has
19 to be diagnosed, right?

20 A. That's right.

21 Q. Aren't there data suggesting that a huge
22 number of Mississippians, in excess of 600,000,
23 either have -- have untreated high blood
24 pressure? It's not here.

25 MR. MIKHAIL: If you don't know an

1 answer --

2 THE WITNESS: I don't know. I was
3 trying to figure it out from these --

4 Q. (By Mr. Biersteker) The data aren't in
5 the exhibit you've got before you. Well, I see
6 that -- would you agree that hypertension is the
7 most common, most potent, and most universal
8 contributor to cardiovascular disease death in the
9 State of Mississippi?

10 MR. MIKHAIL: Object to the form.
11 Seemingly has three questions in one.

12 Q. (By Mr. Biersteker) You may answer.

13 A. I don't know.

14 Q. Would you agree that it is the most
15 significant risk factor leading to heart attacks,
16 strokes, and kidney disease in Mississippi?

17 A. I believe it's the most significant risk
18 factor for strokes. I don't know about the other
19 two.

20 Q. Do you see that in the report you have
21 before you it says hypertension constitutes the
22 most significant risk factor leading to heart
23 attacks, strokes, and kidney disease?

24 A. In that case, I would know it because I
25 read it here but not because I looked at it

1 myself.

2 Q. Do you have any reason to believe that
3 the Mississippi Department of Health was wrong
4 when it said that in November of 1990?

5 A. No. I don't know how many other things
6 they compared that to. I don't know.

7 MR. BIERSTEKER: Off the record for a
8 moment.

9 [OFF THE RECORD.]

10 MR. BIERSTEKER: Back on the record.

11 Q. (By Mr. Biersteker) What is the
12 Mississippi Hypertension Control Program? Do you
13 know?

14 A. In the past, there has been a program
15 which offered medication to patients with
16 hypertension and worked in conjunction with
17 private physicians to control hypertension
18 throughout the state. I don't know how much of it
19 goes on still.

20 Q. This is the Mississippi Health Care
21 Commission's State Health Plan for 1980. It's
22 before your time, I realize, but it says and it
23 quotes, "The Mississippi Hypertension Control
24 Program" --

25 MR. MIKHAIL: Read from what page it

1 is.

2 Q. (By Mr. Biersteker) This is found --
3 it's on page 46 of the Mississippi State Health
4 Plan for 1980. And it says, quote, "To quote
5 information provided by the Mississippi
6 Hypertension Control Program" -- now we have
7 quotes within quotes -- "Hypertension is
8 recognized as the most common, most potent, and
9 most universal contributor to cardiovascular
10 disease," close double quote. Do you have any
11 reason to disagree with the excerpt there?

12 MR. MIKHAIL: Do you need to look at
13 any other portion of this page or --

14 THE WITNESS: No, I don't know. I
15 would have to look at a few other things.

16 Q. (By Mr. Biersteker) What would you want
17 to look at?

18 A. The Chronic Disease Epidemiology and
19 Control book, and I'm not sure what else.

20 MR. BIERSTEKER: Why don't we mark the
21 cover page and that page as the exhibit. Is that
22 okay?

23 MR. MIKHAIL: Yes, if I might see it
24 for a minute.

25 MR. BIERSTEKER: Yeah, sure.

1 MR. MIKHAIL: I'm assuming this is our
2 Bates stamp number.

3 MR. BIERSTEKER: Actually, it's not.
4 It did have your Bates number. I don't know where
5 it went, but that's one of mine.

6 MR. MIKHAIL: Okay. Do you know just
7 for future reference, so there won't be any
8 confusion, whether it was a document produced by
9 the State?

10 MR. BIERSTEKER: It was produced by the
11 State.

12 MR. MIKHAIL: This copy --

13 MR. BIERSTEKER: I believe --

14 MR. MIKHAIL: I recognize the document.

15 MR. BIERSTEKER: I believe it was
16 produced by the State in the course of the
17 litigation.

18 MR. MIKHAIL: I recognize it has. My
19 only question to you was, it does not have the
20 State Bates stamped number, and I know the State
21 has Bates stamped everything.

22 MR. BIERSTEKER: It may have gotten
23 obliterated and copied.

24 MR. MIKHAIL: No objection.

25 MR. BIERSTEKER: Mark that as the next

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1 one in order.

2 [EXHIBIT NO. 13 WAS MARKED AND MADE A
3 PART OF THE RECORD.]

4 [SHORT BREAK.]

5 [EXHIBIT NO. 14 WAS MARKED AND MADE A
6 PART OF THE RECORD.]

7 Q. (By Mr. Biersteker) I wanted to turn
8 back just briefly -- I was thinking over the break
9 -- to my Exhibit 11 here, the one we spent some
10 time talking about, and I don't know that you
11 actually need to refer to it, but if one
12 calculated attributable deaths as you've done here
13 for smoking and then one calculated attributable
14 deaths due to lack of exercise and then one
15 calculated attributable deaths due to alcohol and
16 then one calculated attributable deaths due to
17 accidents and then one calculated attributable
18 deaths due to diet, you could easily have more
19 deaths attributed to different factors than
20 actually occurred in the state of Mississippi,
21 right?

22 A. That's correct.

23 Q. I have marked as Exhibit 14 a large
24 document. It is the 1995 State Health Plan. Did
25 you have input into Exhibit 14?

1 A. I'm not sure.

2 Q. I have flagged, as you will see, a
3 number of pages. I'm probably going to ask you
4 about some, but not all, of those pages, but I
5 left the flags on so that you could locate them
6 more easily. The first question I have is --
7 again relates to hypertension. Doctor, is
8 hypertension a major contributing factor as
9 reported on the page Bates stamped 8151?

10 A. Is this in here?

11 Q. Yes.

12 MR. MIKHAIL: You said they were
13 tagged. She pulled the first tag.

14 MR. BIERSTEKER: I'm not doing them in
15 necessarily the order -- let me start over with
16 the question. Locate the page MSDH --

17 THE WITNESS: Got it.

18 Q. (By Mr. Biersteker) Let me ask the
19 question, Doctor. Doctor, the Mississippi State
20 Health Plan for 1995 reports that hypertension is
21 a major contributing factor in 68 percent of first
22 heart attacks and 75 percent of first strokes. Do
23 you see that reference?

24 A. Yes, uh-huh.

25 Q. Did you have any input into compiling

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1 statistics for this 1995 Mississippi State Health
2 Plan?

3 A. No.

4 Q. Do you agree with the statement that
5 hypertension is a major contributing factor in 68
6 percent of first heart attacks and 75 percent of
7 first strokes?

8 A. I don't have any reason to disagree.

9 Q. Do you have any reason to -- that's
10 fine. Is elevated blood cholesterol a risk factor
11 for hypertension?

12 A. It's a risk factor for heart disease.

13 Q. What are the risk factors for
14 hypertension?

15 A. The risk factors for hypertension?

16 Q. Yes, ma'am.

17 A. I'm not sure exactly.

18 Q. Is diabetes a risk factor?

19 A. I believe so.

20 Q. How about being overweight? Is that a
21 risk factor?

22 A. I believe that is as well.

23 Q. Who -- strike that. Let's turn to page
24 8186 in this document. At the bottom of the page,
25 Doctor, there's a paragraph discussing

1 hypertension screening diagnosis treatment to
2 follow-up services. Do you see that?

3 A. Yes.

4 Q. The document says that the program
5 targets services to persons in the highest risk
6 groups, colon, black males and females, white
7 males between 25 and 55, people who live in rural
8 areas, and the medically underserved who are at or
9 near poverty. Are those the people in Mississippi
10 who are most likely to be hypertensive?

11 A. I'm not sure. That's what it sounds
12 like from here, although it may be medically
13 underserved areas, and those at or near poverty
14 are just at risk for not being screened and
15 treated.

16 Q. Fair enough. That is a possibility.
17 What are the risk factors for having the
18 low-birth-weight baby?

19 A. As I understand it, adolescents are more
20 likely to have low-birth-weight babies, as well as
21 women who smoke.

22 Q. Anything else that you can think of?

23 A. I believe women with hypertension that's
24 not controlled also have lower-birth-weight
25 babies.

1 Q. Is lack of prenatal care a factor for
2 low-birth-weight babies, too?

3 A. I think so.

4 Q. How about poor nutrition? Is that also
5 a risk factor for having a low-birth-weight baby?

6 A. I'm sure it is, yeah.

7 Q. Is low educational and socioeconomic
8 status also a factor of having a low-birth-weight
9 baby?

10 A. I would guess so, but I don't know for
11 fact.

12 Q. Is alcohol consumption a risk factor for
13 having a low-birth-weight baby?

14 A. Yes.

15 Q. Is drug abuse a risk factor for having a
16 low-birth-weight baby?

17 A. It would make sense.

18 Q. Do you know who -- is there a disparity
19 in the incidence of low-birth-weight babies among
20 whites as compared to blacks?

21 A. I believe so.

22 Q. Which racial group has the higher
23 incidence of low-birth-weight babies?

24 A. African-American women.

25 Q. For each of the -- what I'd like to do

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1 now is for each of the diseases that's listed on
2 Exhibit 11, I'd like you to tell me what the other
3 risk factors are for those conditions to the best
4 of your memory as we sit here today, and we need
5 to break it down by age group. Let's start with
6 coronary heart disease. Could you please tell me
7 what the other risk factors are for coronary heart
8 disease are that you --

9 A. High cholesterol, sedentary lifestyle,
10 obesity. You mean other than smoking?

11 Q. Yes. They're on the list because
12 smoking's associated. Anything else for coronary
13 heart disease?

14 A. Did I say hypertension?

15 Q. I don't believe you did.

16 A. Okay. Hypertension.

17 Q. Anything else that you can think of?

18 A. Not off the top of my head.

19 Q. How about for COPD? What are the risk
20 factors for COPD other than smoking?

21 A. There is a form of COPD that's
22 inherited. It's a small amount of all the COPD.
23 There are a few kinds of occupational diseases
24 that will lead to this picture of illness. That's
25 all I can think of.

1 Q. What are the risk factors for cancer of
2 the lip?

3 A. Lip, oral cavity, and pharynx.

4 Q. Thank you. I wasn't sure whether it
5 was --

6 A. Chewing tobacco, as well as smoking. I
7 don't know, other than that.

8 Q. All right. What are the other risk
9 factors for cancer of the larynx?

10 A. I believe for cancer of the larynx and
11 esophagus, alcohol is also a risk factor.

12 Q. Anything else for cancer of the larynx?

13 A. I don't know.

14 Q. Anything other than alcohol and tobacco
15 that's risk factors for cancer of the esophagus?

16 A. Not that I can think of.

17 Q. What are the risk factors for lung
18 cancer other than smoking?

19 A. Radon exposure. As I understand it,
20 Uranium miners are more likely to get lung cancer.

21 Q. Any other risk factors that come to
22 mind?

23 A. Not that I can think of.

24 Q. Pancreatic cancer? Any risk factors?

25 A. I don't know.

1 Q. And the last on the list is
2 cardiovascular disease; is that right?

3 A. Cerebrovascular.

4 Q. Cerebrovascular?

5 A. Stroke.

6 Q. What are the other risk factors for
7 cerebrovascular disease?

8 A. Hypertension would be a risk factor for
9 that, as well as, I'm sure, diet is part of that
10 as well.

11 Q. Anything else that you can think of?

12 A. No.

13 Q. Doctor, the -- going back to Exhibit 2,
14 at the -- at the very top, again, the third line
15 down, it says that you're expected to testify
16 concerning, quote, "the negative impact that
17 tobacco use has on the public health of the
18 Mississippi population," close quote. We've
19 talked about a number of things here today. We
20 talked about mortality, for example. Is there any
21 negative impact of tobacco use on the public
22 health of the Mississippi population about which
23 you are expected to testify other than mortality?

24 A. Well, as I said before, if I say
25 anything about morbidity statistics, it will be

1 from National estimates of the Mississippi
2 population, unless I can find some other way of
3 coming up with morbidity data.

4 Q. Any other negative impacts that you
5 expect to testify about?

6 A. Other than morbidity and mortality?

7 Q. Yes, ma'am.

8 A. Not that I can think of.

9 MR. MIKHAIL: She has been going
10 through a series of questions that you have asked
11 her about the smoking being a risk factor to
12 various diseases.

13 MR. BIERSTEKER: Yeah, the mortality.
14 I guess some others, too.

15 MR. MIKHAIL: Right. I didn't want you
16 to narrow it in scope simply to the mortality and
17 morbidity, even though all that fits into the
18 mortality issue as well.

19 MR. BIERSTEKER: Well, I think -- I'm
20 with you.

21 MR. MIKHAIL: I understand. I just
22 want to --

23 MR. BIERSTEKER: Off the record.

24 [OFF THE RECORD.]

25 [EXHIBIT NO. 15 WAS MARKED AND MADE A

1 PART OF THE RECORD.]

2 Q. (By Mr. Biersteker) Doctor, I have
3 handed you what's been marked as Exhibit 15, and
4 it appears to be some Minutes from the Mississippi
5 Council for Tobacco-Free Society Advisory
6 Committee Meeting. It does not show you in
7 attendance, but the second to last paragraph on
8 the page does mention you. Does this document --
9 well, let me ask: Did Cheryl Grubbs or Charlotte
10 McHenry ever suggest that you investigate whether
11 the Mississippi State Health Insurance Program for
12 employees should charge a higher premium to
13 smokers?

14 A. This was in July of 1992?

15 Q. That's the date of the document, yes.

16 A. I don't remember them approaching me
17 with that, although they might have approached me
18 with it, and I said, "You need to talk to somebody
19 else." I'm not sure. I don't recall that.

20 Q. You don't recall them approaching you?

21 A. No.

22 Q. Have you ever considered whether the
23 State Health Insurance Program should charge a
24 higher premium to smokers?

25 A. I've never thought about it.

1 Q. Why not?

2 MR. MIKHAIL: I'm going to let her
3 answer it, but I'm going to object. That's beyond
4 what she's being proffered as an expert in,
5 setting insurance rate for State employees, health
6 care plan. She can try, but I'm going to object.
7 Well, she answered your question that she doesn't
8 recall being --

9 MR. BIERSTEKER: That's fine.

10 MR. MIKHAIL: -- approached, and if she
11 had been, she would have referred them to someone
12 else. We're going to get lost if we keep going
13 down this road.

14 MR. BIERSTEKER: That's all right. I
15 just had a few questions.

16 THE WITNESS: Why haven't I thought
17 about that?

18 Q. (By Mr. Biersteker) Yeah.

19 A. It never occurred to me, and I've never
20 -- I have never dealt with the insurance -- the
21 State insurance. I wouldn't even know who to talk
22 to.

23 Q. Well, if Ms. Grubbs came to you tomorrow
24 with this suggestion, to whom would you refer her?

25 MR. MIKHAIL: Object to the form. You

1 can try to answer it.

2 THE WITNESS: Probably Theresa Hanna,
3 who is part of the -- deals with State insurance.

4 Q. (By Mr. Biersteker) Doctor, you believe
5 that smoking presents health risks, don't you?

6 A. Yes.

7 Q. In fact, you believe that it causes many
8 diseases, right?

9 A. Yes.

10 Q. How long have you believed that?

11 A. As long as I can remember.

12 Q. Did you believe it in childhood?

13 A. I can remember marking my parents'
14 cigarettes with a red line because we heard on
15 television that if you only smoked half a
16 cigarette there was less risk of disease.

17 Q. Were you in grade school at that time?

18 A. Yes.

19 Q. So that would have been in the early
20 1960s roughly?

21 A. Yes.

22 Q. In the performance of your official
23 duties for the State of Mississippi, have you ever
24 relied upon anything that the tobacco industry
25 said about smoking and health?

1 A. Not that I know of.

2 Q. Have you ever heard any employee or
3 official of the State of Mississippi express
4 doubts that smoking causes disease?

5 A. Any employee?

6 Q. Employee or official of the State of
7 Mississippi.

8 A. I don't remember anything like that.

9 Q. Do you know of any employee or official
10 of the State of Mississippi who has relied upon
11 anything said by the tobacco industry concerning
12 smoking and health in the performance of his or
13 her duties?

14 A. I don't think so.

15 Q. Have you ever testified before the
16 Mississippi Legislature?

17 A. No.

18 Q. Have you ever prepared somebody else to
19 testify before the Mississippi Legislature?

20 A. I've given Dr. Thompson information,
21 when he wanted it, to go testify. I don't think
22 I've ever given him anything about smoking.

23 Q. Without going into too much detail, what
24 were the subjects upon which you provided
25 information to Dr. Thompson in order to help him

1 prepare to testify before the Mississippi
2 Legislature?

3 A. Oh, shoot, I don't know. I can't
4 remember specifics, but it was probably
5 information about numbers of cases of diseases.

6 Q. Have you ever sent reports to the
7 Mississippi Legislature?

8 A. I don't think so.

9 Q. Have you ever met with individual
10 legislators to express your views or the views of
11 the Mississippi State Department of Health on
12 proposed legislation and regulations?

13 A. Judy Moulder, who runs the Cancer
14 Registry -- I believe it was Judy -- and I met
15 with -- let me make sure it was Judy. Some other
16 person from the Health Department who I can't
17 remember and I met with one of the legislators to
18 try and work out the proposed legislature for the
19 authority for the Cancer Registry.

20 Q. In a nutshell, what was your rationale
21 for wanting to have a Cancer Registry?

22 A. All we have currently for data on cancer
23 in Mississippi is mortality data, and we get
24 questions pretty often from individuals in this
25 state about cancer in the neighborhood, and one of

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1 the ways of being able to look at whether or not
2 what's in their neighborhood is unusual or whether
3 or not there certainly is an increase in a certain
4 kind of cancer in a certain area is by using
5 Cancer Registry, and then to be able to look at
6 preventable cancers and see when we can try and
7 work on cancer prevention activities.

8 Q. Did you hope that your views would
9 persuade the legislators with whom you met?

10 A. Actually, the lady we met with whose
11 name I had forgotten wanted a Cancer Registry; she
12 just needed some help with the wording regarding
13 the legislation.

14 Q. Is there anything wrong, in your view,
15 with individuals or corporations communicating
16 their views on subjects of interest to them to
17 elected representatives of the State of
18 Mississippi?

19 MR. MIKHAIL: Object as being outside
20 the scope of what she's offered to testify about,
21 but I'll permit her to answer.

22 THE WITNESS: It's a complicated
23 question.

24 Q. (By Mr. Biersteker) It's complicated.

25 MR. MIKHAIL: Same objection.

1 THE WITNESS: As an employee at the
2 Health Department, I don't go to the Legislature
3 unless I'm told to by my boss or my boss's boss,
4 and then what I take with me is the opinion of the
5 Health Department. As far as anyone else
6 expressing their opinion to the legislators, I
7 don't think that's wrong. I think that sometimes
8 the interest of the public is not served.

9 Q. (By Mr. Biersteker) Why wouldn't the
10 interests of the public be served? Do you have
11 specific examples?

12 A. I'm really not sure enough about how the
13 Legislature and -- how the Legislature works and
14 how laws are made to answer that well.

15 Q. Okay. Are there any data that suggests
16 that Mississippians are unaware smoking poses
17 serious health risks?

18 A. I don't think so.

19 Q. Are there any data to suggest that
20 Mississippians somehow underestimate the health
21 risks of smoking?

22 A. I don't know. I've not seen anything.

23 Q. Is there any health risk about which
24 Mississippians are more aware?

25 A. Are more aware than other groups?

1 Q. Compared to smoking.

2 A. Oh. I don't know.

3 Q. Are there any data for any year on seat
4 belt use or nonuse among Mississippi Medicaid
5 recipients?

6 A. Not that I know of among Medicaid
7 recipients in particular.

8 Q. Are there any data that refer to seat
9 belt use or nonuse among State employees?

10 A. I don't think so.

11 Q. More generally, are there any
12 demographic data concerning State employees and
13 comparing them to the general population in the
14 state in terms of their racial composition or age
15 or sex?

16 A. I don't know.

17 Q. Are there any data on seat belt use or
18 nonuse among recipients of unfunded hospital care
19 in Mississippi?

20 A. I don't think so.

21 Q. Are there any data on the percentage of
22 people who are overweight among Mississippi
23 Medicare recipients -- Medicaid. Excuse me.
24 Start over. Are there any data on the percentage
25 of people who are overweight among Mississippi

1 Medicaid recipients?

2 A. I don't think so.

3 Q. Are there any data on the percentage of
4 people who are overweight among State employees of
5 Mississippi?

6 A. I don't think so.

7 Q. Are there any data on the percentage of
8 people who are overweight among the unfunded --
9 the recipients of unfunded hospital care?

10 A. I don't think so.

11 Q. Are there any data on the marital status
12 of people who are participants in Medicaid?

13 A. I'm not sure.

14 Q. Where would you go to find out?

15 A. Medicaid.

16 Q. Are there any data on the marital status
17 of people who are State employees?

18 A. There might be. I'm not sure.

19 Q. Where would you go check?

20 A. The State insurance people.

21 Q. Are there any data on the marital status
22 of people who are recipients of unfunded hospital
23 care?

24 A. I don't think so.

25 Q. Are there any data at all on who the

1 recipients of unfunded hospital care in the State
2 of Mississippi are?

3 A. I don't know.

4 Q. When you were looking for data for Dr.
5 Burns, did you look for anything other than
6 dollars expended?

7 A. I do know that it was by disease, and
8 I'm not sure what other factors were there.

9 Q. Are there any actual data on the income
10 level of people who are on Medicaid in
11 Mississippi?

12 A. There might be. I don't know.

13 Q. Are there any data on the income level
14 of State employees?

15 A. Probably, but I don't know.

16 Q. Who would you ask about that one?

17 A. The same person I referred to earlier,
18 Theresa Hanna.

19 Q. Who is Theresa Hanna? You answered
20 this, but I'm not sure.

21 A. She used to be with the Health
22 Department in Policy and Planning and is now with
23 the State insurance.

24 Q. Mississippi Comprehensive Health Plan?
25 DFA, Department of Finance and Administration?

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1 A. No.

2 Q. I've exhausted my store of knowledge
3 about Mississippi Government.

4 MR. MIKHAIL: If you know, answer; if
5 you don't, don't guess.

6 THE WITNESS: No.

7 Q. (By Mr. Biersteker) Are there any data
8 on people who are recipients of unfunded hospital
9 care?

10 A. I don't know.

11 Q. Are there any data on the educational
12 levels of people in the State of Mississippi?

13 A. I don't know.

14 Q. Are there any data on the educational
15 levels of State employees in Mississippi?

16 A. I don't know.

17 Q. Are there any data on educational levels
18 of individuals who are recipients of unfunded
19 hospital care in hospitals of Mississippi?

20 A. I don't know.

21 Q. Are there any data on the age, sex, and
22 race of State employees?

23 A. I'm not sure.

24 Q. Are there any data on the age, sex, and
25 race of recipients of unfunded hospital care?

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1 A. I don't know.

2 Q. Have there been any changes in the
3 prevalence of seat belt use or nonuse in the State
4 of Mississippi over time?

5 A. I think it's increased some.

6 Q. What? Use?

7 A. Yes.

8 Q. Do you know for what years data exists
9 on seat belt use and nonuse in the State of
10 Mississippi?

11 A. It would be in the BRFSS data. It's not
12 in there.

13 Q. No. You've summarized data from 1991
14 through 1995?

15 A. Right.

16 Q. Do you know if Mississippi participated
17 in earlier iterations of BRFSS?

18 A. They did something. BRFSS was done in
19 Mississippi in 1990, but I don't think it was the
20 same way it was done in the years following. I
21 think it may have just been a smaller survey. I
22 don't have the 1990 data.

23 Q. What accounts for -- let me ask you
24 this: Have you conducted any investigation, or
25 has the Mississippi Department of Health conducted

1 any investigation, as to the reasons why seat belt
2 use has increased in the state?

3 A. No.

4 Q. Does Mississippi have a law that
5 requires people to wear seat belts?

6 A. Yes.

7 Q. Do you know approximately when that
8 legislation was passed?

9 A. Pretty recently, but I'm not sure what
10 year.

11 Q. Have teen pregnancy rates in the state
12 of Mississippi been going up or down?

13 A. I'm not sure.

14 Q. Have the incidence of sexually
15 transmitted diseases in the state been going up or
16 down -- has the incidence of sexually transmitted
17 diseases been going up and down?

18 A. The incidence of syphilis has gone up
19 until this year, when it has started to go down.

20 Q. Has the percentage of people in
21 Mississippi who are overweight gone up or down
22 over the -- over the life of the BRFSS data?

23 A. I don't know.

24 Q. Has the percentage of people with
25 medical insurance gone up or down over time?

1 A. I'm not sure.

2 Q. As a general question, if I may try to
3 do it this way --

4 MR. MIKHAIL: You mean without me
5 pouncing on you?

6 MR. BIERSTEKER: Yes.

7 Q. (By Mr. Biersteker) Do you have any
8 information about the prevalence of seat belt use,
9 the percentage of people who are overweight, the
10 percentage of people with medical insurance for
11 any years other -- strike that. Do you have any
12 data concerning prevalence of seat belt use,
13 percentage of people overweight, percentage of
14 people with medical insurance other than the BRFSS
15 data?

16 A. I've not looked at any other data, but
17 I'm sure there are National surveys like NHANES
18 that have got state-specific data.

19 Q. You think NHANES has state-specific
20 data?

21 A. I think it might.

22 Q. Any other data sources that you know of
23 that might address these variables of seat belt
24 use, overweight, medical insurance in the state of
25 Mississippi?

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1 A. The Cancer Prevention Survey may have
2 something about overweight in it, but I'm not
3 sure.

4 Q. Do you know in what year that was
5 conducted?

6 A. As I understand, it's still going on.

7 Q. It's longitudinal?

8 A. Right.

9 Q. Do you know when it was commenced?

10 A. Started in the mid to late '80s. No, I
11 don't remember when it started.

12 Q. That's all right. You don't have to
13 look. Do you have any information about changes
14 in income levels in the State of Mississippi over
15 time?

16 A. No.

17 Q. Do you know if the State keeps that
18 information?

19 A. I'm not sure.

20 Q. Are you aware of any data other than the
21 BRFSS data concerning changes in general
22 educational levels within the state of
23 Mississippi?

24 A. I think that information probably exists
25 somewhere, but I don't know where it is.

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1 Q. Do you have any data concerning the age
2 distribution of the Mississippi population?

3 A. Yes.

4 Q. Where is that data found?

5 A. From the -- every Vital Statistics in
6 Mississippi is going to have either the last
7 census data or projection from it.

8 Q. So they have actual data for every ten
9 years?

10 A. Right.

11 Q. And then for the interim years they make
12 projections?

13 A. Right.

14 Q. Does that -- do the Vital Statistics
15 census data include information on the racial
16 composition of the Mississippi population
17 generally?

18 A. Yes.

19 Q. Does it include information about the
20 sex of the Mississippi population generally?

21 A. Yes.

22 Q. Have there been changes in Mississippi
23 in the percentage of health care expenditures
24 incurred for hospital care over time?

25 A. I don't know.

1 Q. Does the State track that kind of data?

2 A. I don't know.

3 Q. If you wanted to know, who would you
4 ask?

5 A. The Mississippi Hospital Association.

6 Q. Has the percentage of total medical care
7 expenditures spent for ambulatory care in the
8 state of Mississippi changed over time?

9 A. I don't know.

10 Q. If you wanted to know the answer to that
11 question, who would you ask?

12 A. You might have to go several places.

13 One would be the Mississippi Hospital
14 Association. I'm not sure where you get
15 ambulatory care data.

16 Q. Have there been changes in the
17 percentage of medical care expenditures incurred
18 for home health care in Mississippi over time?

19 A. I don't know.

20 Q. Isn't home health care a relatively
21 recent phenomenon?

22 A. It's been around since I've been with
23 the Health Department.

24 Q. Since 1988?

25 A. Yes.

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1 Q. Would you go to the Hospital Association
2 for data related to home health care, too?

3 A. No. I think there's a Home Health
4 Association, and then our Policy and Planning
5 office might have some information on that.

6 Q. Have there been changes in the
7 percentage of medical care expenditures incurred
8 for prescription drugs over time in Mississippi?

9 A. I don't know.

10 Q. Have there been changes in the relative
11 prices of treating smoking- and nonsmoking-related
12 diseases in the United States?

13 A. I'm sure cost has gone up for medical
14 care.

15 Q. The relative prices of treating
16 smoking- --

17 A. Versus.

18 Q. -- compared to nonsmoking-related
19 diseases?

20 A. Oh, I don't know.

21 Q. Do you have data regarding relative
22 prices of treating smoking- or nonsmoking-related
23 diseases in any geographic area or some population
24 in the state of Mississippi?

25 A. Not that I know of.

1 Q. Do you know who might have that data?

2 A. I don't know.

3 Q. Have there been changes in the relative
4 incidence of smoking- versus nonsmoking-related
5 diseases over time in the United States?

6 A. Lung cancer has increased.

7 Q. Over what time period?

8 A. There's a lovely chart in here.

9 MR. MIKHAIL: Do you want to know?

10 MR. BIERSTEKER: Yeah.

11 MR. MIKHAIL: The last time she reached
12 for a book you said, No, that's all right.

13 MR. BIERSTEKER: I changed my mind.

14 Q. (By Mr. Biersteker) All right. This is
15 cancer and mortality data, right?

16 A. Right.

17 Q. Of course there is a difference between
18 cancer mortality and cancer morbidity, at least
19 with respect to some forms of cancer, right?

20 A. Sure.

21 Q. Apart from lung cancer --

22 MR. MIKHAIL: Before you leave that
23 chart, make sure the record reflects what page out
24 of that book you're looking at.

25 MR. BIERSTEKER: Absolutely. For the

1 record, this is Chronic Disease Epidemiology and
2 Control by Brownson, Remington, and Davis,
3 published by the American Public Health
4 Association in 1993, and the particular chart that
5 Dr. Currier referred to is found on page 139.

6 MR. MIKHAIL: Thank you.

7 Q. (By Mr. Biersteker) There are no data
8 except for 1996 in Mississippi about the relative
9 incidence of different kinds of cancers, right?

10 A. Incidence, that's right.

11 Q. Are there mortality data relating to the
12 different kinds of cancers in Mississippi --

13 A. Yes.

14 Q. -- over time?

15 A. Yes.

16 Q. Are there data for mortality regarding
17 diseases generally --

18 A. Yes.

19 Q. -- in the state of Mississippi over
20 time?

21 A. Yes.

22 Q. Are those data part of the Mississippi
23 Vital Statistics?

24 A. Yes.

25 Q. Has anybody analyzed those data to

1 determine whether or not there have been changes
2 in the relative incidence -- strike that. Has
3 anybody analyzed those data to see whether or not
4 mortality rates for smoking- versus
5 nonsmoking-related diseases have changed over
6 time?

7 A. Not for smoking versus nonsmoking.

8 Q. Are there any data at all -- Mississippi
9 is a poor state, isn't it?

10 A. Yes.

11 Q. In fact, it's the poorest state in the
12 Nation?

13 A. I believe so.

14 Q. And that's -- is it a poor state in the
15 Nation based upon per capita income?

16 A. I think so.

17 Q. Is it also a poor state in the Nation
18 based on a median income for a family of four?

19 A. I don't know that, but I would believe
20 it.

21 Q. Is Mississippi one of the most
22 poorly-educated states in the Nation?

23 A. I would guess so, but I don't have
24 statistics on that.

25 Q. Is the quality of housing in the state

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1 of Mississippi well below the National average?

2 A. Yes.

3 Q. Each of these factors -- poverty, poor
4 education, poor housing -- adversely affects the
5 status -- the health status of the citizens of the
6 state, doesn't it?

7 A. Yes.

8 Q. One way that poverty could affect health
9 status is that income gets spent on food,
10 clothing, shelter, and it's difficult to afford
11 adequate health care, right?

12 A. Right.

13 Q. Another way that poverty could affect
14 health status, I suppose, would be to make -- to
15 increase the risk of infectious diseases such as
16 tuberculosis?

17 A. Yes.

18 Q. And treating acute conditions such as
19 tuberculosis or sexually transmitted diseases or
20 measles zaps health care dollars that the State
21 might otherwise be able to dedicate to chronic
22 disease treatment and prevention, right?

23 A. I don't know. A lot of our TB control,
24 which actually treats -- we treat TB patients, and
25 a lot of our STD money is Federal money.

1 Q. While separate and apart from money
2 spent by the State, does it -- does it consume
3 resources of the health care providers to attend
4 to these acute conditions and perhaps be able to
5 devote less time to chronic conditions and
6 prevention?

7 A. I'm sorry. Can you repeat that?

8 Q. Yeah. Sure. If you've got a population
9 that's got a high incidence of acute condition
10 such as tuberculosis, measles, influenza,
11 meningitis, hepatitis, doctors may be spending a
12 lot of time treating those kinds of conditions and
13 less time counseling patients and advising them on
14 how to change their lifestyles to avoid chronic
15 conditions later in life?

16 A. Most of the things you mentioned are
17 things that are taken care of by the Health
18 Department, TB -- we give flu shots, although
19 you're correct; we don't treat patients with the
20 flu. I don't think poverty has a lot to do with
21 the flu. I'm not sure of that. In an individual
22 practice, if you had a whole lot of acute illness,
23 yes, it would mean you had less time to spend on
24 preventive counseling.

25 Q. Mississippi's new case rate for

1 tuberculosis has been among the highest in the
2 Nation for many years, hasn't it?

3 A. It's -- actually, when everybody else's
4 rate was going up, ours was not.

5 Q. Why don't we look at Exhibit 14, which
6 is the State Health Plan for 1995, the fat one.

7 A. Okay.

8 Q. If you can turn to page 8135 under the
9 heading Tuberculosis, doesn't the State Health
10 Plan report that Mississippi has exceeded the
11 National new case rate for tuberculosis in 34 of
12 the last 36 years?

13 A. Yes.

14 Q. And that at least in 1993, Mississippi
15 had the 13th highest rate of tuberculosis among
16 all the states?

17 A. Yes.

18 Q. Mississippi devotes less than one cent
19 on every dollar that it spends to altering the
20 lifestyles of its citizens; isn't that right?

21 A. I don't know.

22 Q. If that's what the State Health Plan
23 reports, would you dispute it?

24 A. No.

25 Q. Do the poor also have more limited

1 access to health care?

2 A. Yes.

3 Q. Is that also true of people who live in
4 rural portions of the state of Mississippi?

5 A. I believe so.

6 Q. Are those counties generally
7 underserved? There's not enough doctors and
8 health care providers to go around?

9 A. Yes.

10 Q. If people aren't seeing a doctor
11 regularly, are they more likely to wait until
12 their condition becomes more severe, then have to
13 go to the emergency room or to the hospital?

14 A. Probably.

15 Q. Turn to page 8140 of the Mississippi
16 Health Plan 1995, Exhibit 14. There's a chart in
17 the middle of the page there that identifies key
18 health problems across the life-span of blacks in
19 Mississippi. Did you have any input into devising
20 this table?

21 A. No.

22 Q. Would you disagree with the
23 characterization that this is a list of key health
24 problems in the black population in Mississippi?

25 A. Well, it depends on how you came up with

1 this list of problems.

2 Q. I didn't.

3 A. Nor did I.

4 Q. Okay.

5 A. It depends on how this list was
6 formulated. If one is looking at health problems
7 that are dis -- that disproportionately affect
8 the blacks in Mississippi, that would be different
9 than health problems that affect the blacks
10 perhaps more than or less than whites in
11 Mississippi. If the second is true, then they
12 left off smoking.

13 Q. I saw that it was not included. One
14 reference I thought was puzzling is it lists as
15 one of the four problems during childhood years,
16 cancer. What cancer occurs in childhood years in
17 Mississippi with some -- with sufficient frequency
18 to justify inclusion in a table like this?

19 A. I don't know. There are several cancers
20 that occur in childhood, but I don't know what --
21 what made them list it in here.

22 Q. If you were going to add smoking to this
23 table, for which age categories would you add it?

24 A. All four.

25 Q. There's five. Add for all five?

1 A. Oh, infants. Yes.

2 Q. What is your basis for adding it for the
3 teenage/young adult years?

4 A. Because of what you addressed earlier.
5 This is very often when people start smoking.

6 MR. MIKHAIL: Are we at a good stopping
7 point for a five-minute break?

8 MR. BIERSTEKER: We sure are.

9 MR. MIKHAIL: I've got several phone
10 calls to make, but it won't take five minutes.

11 MR. BIERSTEKER: There is a chance if
12 we end right at 5:00 -- probably not, but there is
13 a chance we could finish up today if we went a
14 little past 5:00.

15 [OFF THE RECORD.]

16 [SHORT BREAK.]

17 [EXHIBIT NO. 16 WAS MARKED AND MADE A
18 PART OF THE RECORD.]

19 Q. (By Mr. Biersteker) Doctor, I have
20 marked as the last exhibit the book that you
21 earlier advised you had not heard of, the Health
22 Care State Rankings, 1996, Health Care in the 50
23 States. It is the Fourth Edition, and I have
24 included excerpts from that book, and I just
25 wanted to ask you about the excerpts that are in

1 the exhibit, so let me hand you Exhibit 16.

2 MR. MIKHAIL: You want to put that
3 rubber band around this big book, Peter?

4 THE WITNESS: Did I keep it?

5 MR. MIKHAIL: No, he's got that right
6 there.

7 MR. BIERSTEKER: I can multi-task.

8 Q. (By Mr. Biersteker) Doctor, I wanted to
9 ask you about some of the tables that appear in
10 this book, and almost all of them site U.S.
11 Department of Health and Human Services, Centers
12 for Disease Control, and other governmental
13 sources of data. And the first page I asked you
14 to turn to is page 27 -- they should be in order,
15 for a change -- page 27, and we talked about this
16 earlier, but at least based on 1993 data, it
17 appears as if Mississippi has the highest birth
18 rate among teenage women; is that right?

19 A. Yes.

20 Q. Turning to the next page, page 49,
21 Mississippi ranks in the bottom quintile of the
22 states -- 41st in the percentage of mothers who
23 get prenatal care in the first trimester of their
24 pregnancy, at least based on 1993 data, collected,
25 again, by the U.S. Department of Health and Human

1 Services, right?

2 A. Yes.

3 Q. The next page, page 81 of the book,
4 indicates that Mississippi is the sixth highest
5 state in the Nation in terms of overall death rate
6 in the population, based on 1990 data collected by
7 the U.S. Department of Health and Human Services,
8 right?

9 A. Yes.

10 Q. The next page, page 87, indicates that
11 Mississippi has the second highest infant
12 mortality rate in the Nation, at least based on
13 1994 data collected by the U.S. Department of
14 Health and Human Services, right?

15 A. Yes.

16 Q. The next page I wanted to ask you about
17 is the estimated death rate by bladder cancer in
18 1996, and Mississippi has a relatively low rate
19 for bladder cancer. It ranks 48th among the 50
20 states in the death rate by bladder cancer,
21 according to the data presented here, right?

22 A. Yes.

23 Q. Similarly, on page 131, talks about
24 atherosclerosis death rates, Mississippi ranks
25 42nd in the 50 states for the death rate by

1 atherosclerosis, at least based on 1992 data,
2 right?

3 A. Yes.

4 Q. That's a relatively low rate compared to
5 the rest of the Country, right --

6 A. Right.

7 Q. -- for diseases of the heart, generally;
8 however, Mississippi, based on 1993 data, has the
9 fourth highest death rate of all the 50 states,
10 right?

11 A. Yes.

12 Q. The next page, page 149, shows that
13 Mississippi has the third highest death rate by
14 syphilis based on 1992 data in the Nation,
15 correct?

16 A. Yes.

17 Q. The next page, page 151, indicates that
18 Mississippi has the second highest death rate by
19 tuberculosis, based on 1992 data, in the Nation,
20 right?

21 A. Yes.

22 Q. The next table, it appears on page 153,
23 and it shows that Mississippi has the highest
24 death rate by injury, at least based upon 1992
25 data, in the Nation, right?

1 A. Yes.

2 Q. Page 155 indicates that Mississippi has
3 the highest death rate by accidents and adverse
4 events in 1993; is that right?

5 A. Yes.

6 Q. Similarly, Mississippi has the highest
7 death rate by motor vehicle accidents, at least
8 based on 1993 data, right?

9 A. Yes.

10 Q. Mississippi has -- we're on page 159 --
11 the second highest death rate by homicide in the
12 Country based on 1993 data, right?

13 A. Yes.

14 Q. On page 231 we talked about health care
15 access. Mississippi has the seventh highest
16 percent of the population without any health
17 insurance, based on 1994 data, compared to the
18 other states; is that right?

19 A. Yes.

20 Q. Is the next document page 241?

21 A. Yes.

22 Q. Mississippi ranks 47th among the 50
23 states in terms of the percentage of people who
24 were enrolled in health maintenance organizations
25 in 1994, right?

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1 A. Yes.

2 Q. On page 251, Mississippi ranks near the
3 bottom, 47th of the 50 states, for per capita
4 personal health care expenditures in 1993, right?

5 A. Yes.

6 Q. On the other hand, page 257 suggests
7 that -- well, shows that, at least based on 1993
8 data, Mississippi had the fifth highest hospital
9 expenditure -- excuse me. Let me say this again.
10 I messed it up. Do you see page 257 from the
11 book, Doctor?

12 A. Yes.

13 Q. Does it indicate that Mississippi was
14 among the top five states in the percentage of
15 personal health care expenditures spent on
16 hospitals in 1993?

17 A. Yes.

18 Q. On the other hand, for per capita
19 expenditures for physician services in 1993,
20 Mississippi ranked 49th, near the bottom of all
21 the states; is that right?

22 A. Yes.

23 Q. Spent a very relatively low amount on
24 physician care, right?

25 A. Per capita, right.

1 Q. Per capita. On page 347, in terms of
2 estimate bladder cancer cases in 1996, Mississippi
3 does very well. It has the second lowest
4 incidence of bladder cancer cases. Do you see
5 that?

6 A. Yes.

7 MR. MIKHAIL: We're the first state to
8 file suit against the tobacco industry for health
9 care expenditures, however.

10 MR. BIERSTEKER: That wasn't in this
11 book.

12 Q. (By Mr. Biersteker) If you'll turn to
13 page 399, Mississippi has the highest syphilis
14 rate in the Nation in 1995?

15 A. Yes.

16 Q. By a very wide margin?

17 A. Yes.

18 Q. Turning to the next page, the percentage
19 of the population lacking access to primary health
20 care in 1994, Mississippi has the highest percent
21 of the population that lacked access to primary
22 health care in 1994; is that right?

23 A. Yes.

24 Q. The next table is the percent of adults
25 who smoke in 1994. You see that?

1 A. Yes.

2 Q. Mississippi's about -- well, it's about
3 in the middle, actually. Mississippians smoke
4 slightly less than the average state; is that
5 right?

6 A. Yes, for 1994.

7 Q. Right. On page 494, the percentage of
8 adults who are overweight in Mississippi is the
9 highest in the Nation, right?

10 A. Yes.

11 Q. And if you turn to the next page, 494 --
12 I love this one -- Mississippi ranks in the bottom
13 quintile in the percentage of overweight adults
14 who are actually trying to lose weight, right?

15 A. Yes.

16 Q. On 496, we have the percentage of adults
17 who live a sedentary lifestyle. Again,
18 Mississippi residents were the sixth most
19 sedentary in the Nation?

20 A. Yes.

21 Q. And in terms of the percentage of adults
22 who have regular and vigorous physical exercise in
23 1994, according to the U.S. Department of Health
24 and Human Services, Mississippi had the second
25 lowest percentage among those states who are

1 reporting data, right?

2 A. Yes.

3 Q. Mississippi ranked dead last among the
4 percentage of adults who consumed fruit and
5 vegetables each day in 1994 among the states
6 reporting data. There's no data for Rhode Island;
7 is that right?

8 A. Yes.

9 Q. And in terms of seat belt use,
10 Mississippi again ranked near the bottom in terms
11 of the percentage of people in the state who use
12 their seat belts, based on 1994 data, right?

13 A. Yes.

14 Q. In light of the data we have reviewed,
15 would you agree that Mississippi is not
16 representative of the Nation as a whole in terms
17 of its public health?

18 A. No.

19 Q. You would not?

20 A. No. I think there are a lot of examples
21 in here that you have given that would not be dead
22 last or at the bottom if you looked at it by race
23 and by sex; infant mortality, for example.

24 Q. All right. Go ahead.

25 A. Our infant mortality in African-American

1 women is not anywhere near last. I don't know
2 what it is. But it's certainly not last. And if
3 you look at whites separately from
4 African-Americans, neither one are at the very
5 bottom.

6 Q. For infant mortality?

7 A. Right, as an example.

8 Q. Well, if whites in Mississippi, for
9 example, have an infant mortality rate that's
10 comparable to whites elsewhere in the United
11 States, and if black women in Mississippi have an
12 infant mortality rate -- I guess it's actually the
13 women who have the rates -- if black infants in
14 the state of Mississippi have an infant mortality
15 rate that is comparable to black infants in the
16 Country as a whole, is the sole reason that
17 Mississippi finishes second to the bottom in terms
18 of its infant mortality rate that the population
19 in Mississippi has -- is disproportionately black?

20 A. That is a large reason, yes.

21 Q. Is that true of any of the other
22 examples that I have given, that if you compared
23 these rates based on age -- I mean based on race
24 and sex, that Mississippi would be representative
25 of the United States as a whole?

1 A. In some of these things, we'd be closer
2 to the middle, yes.

3 Q. Have you examined this --

4 A. No.

5 Q. -- with respect to any of these
6 variables --

7 A. No.

8 Q. -- other than infant mortality?

9 A. No.

10 Q. Have you examined it for infant
11 mortality?

12 A. I've only heard it.

13 Q. Is it true that without adjusting --
14 strike that. Would it be inappropriate to compare
15 Mississippi -- hang on just a minute. I'll get
16 this right. Certainly you would agree, based on
17 these statistics, that --

18 MR. MIKHAIL: These statistics meaning
19 the ones in Exhibit 16?

20 MR. BIERSTEKER: Correct.

21 MR. MIKHAIL: All right.

22 Q. (By Mr. Biersteker) That Mississippi as
23 a whole, without adjusting for racial differences,
24 is not representative of the United States as a
25 whole?

1 A. I think if you took -- we are certainly
2 a very poor state, and I think if you took very
3 poor rural areas anywhere in the Country you would
4 see statistics like this.

5 Q. I appreciate that. I don't know whether
6 it's right or not, but I'm not sure it answers my
7 question. And that is, without taking into
8 account peculiar racial distribution of the
9 population in Mississippi and its
10 disproportionately rural and poor population, and
11 if you just look at averages for the state of
12 Mississippi, it is not representative of the
13 United States as a whole, is it?

14 A. Certainly we are at one end as opposed
15 to being in the middle.

16 Q. Is it representative on the whole of the
17 United States as a whole or not?

18 A. It's -- it's not average. I mean, we're
19 part of the United States.

20 Q. I know, but I asked if it was
21 representative. Is the state of Mississippi, on
22 the whole, representative of the United States in
23 terms of its experience relating to variables like
24 those in Exhibit 16?

25 A. It is different from the United States

1 average, that's right.

2 Q. Does that mean it's not representative?

3 MR. MIKHAIL: Peter, I think she's
4 trying to answer your question the best she can.
5 Don't put words in her mouth.

6 MR. BIERSTEKER: I'm not. That's
7 ridiculous. I think I'm entitled to an answer to
8 the question I asked. If the answer is I don't
9 know --

10 MR. MIKHAIL: But you're following-up.

11 MR. BIERSTEKER: I'm not sure average
12 means the same thing.

13 Q. (By Mr. Biersteker) Well, let me ask
14 this question: Does average mean the same thing
15 to you as representative?

16 A. No.

17 Q. Okay.

18 A. I wouldn't -- if what you're asking is
19 would you use Mississippi as an example of what
20 the United States is like on a whole, no, I
21 wouldn't.

22 Q. Do you believe that the state of
23 Mississippi is facing a public health crisis?

24 A. In what respect?

25 Q. With respect to the variables discussed

1 in Exhibit 16.

2 A. I think that -- I'm not sure that
3 "crisis" is the right word. I think there are a
4 lot of areas in public health in Mississippi that
5 need attention.

6 Q. Do those areas include teen pregnancy,
7 syphilis, access to health care, accidents,
8 homicides?

9 A. Yes.

10 Q. Some of the other things? And a lot of
11 variables we talked about in Exhibit 16 don't have
12 anything to do with smoking, do they?

13 A. That's correct.

14 MR. BIERSTEKER: Why don't we take a
15 short break. I may have just a few more
16 questions, but I want to have some of the answers
17 read back to me by the reporter, if I could,
18 during the break.

19 [SHORT BREAK.]

20 Q. (By Mr. Biersteker) I don't mean to be
21 difficult, but my sense is I didn't get an answer
22 to the question I had asked a couple of times
23 before we took our short break, and that was
24 whether or not the state of Mississippi's public
25 health experience as reflected in data like those

1 in Exhibit 16 is representative of that of the
2 Nation or not, and I believe you earlier answered
3 that it was not average but then said that average
4 wasn't the same thing as representative, and I
5 would appreciate if you would try to respond to
6 the question. And that is, again: Is the state
7 of Mississippi on the whole representative of the
8 United States in terms of public health variables
9 like those we discussed in Exhibit 16?

10 A. Many of the public health variables in
11 Mississippi are worse than the Country as a
12 whole. I'm not sure what you mean by
13 representative.

14 Q. Well, you're an epidemiologist. What
15 does it mean to you?

16 MR. MIKHAIL: I think it's only fair
17 that you tell her what you mean by your question,
18 first.

19 MR. BIERSTEKER: No, Charles.

20 MR. MIKHAIL: You're asking her to
21 frame the question. You're asking the question,
22 Peter, and you're asking her whether it's
23 representative. Define "representative" for her
24 before she answers it.

25 MR. BIERSTEKER: I'm --

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1 MR. MIKHAIL: Don't tell the witness.

2 MR. BIERSTEKER: You're telling me what
3 to do, and I don't appreciate it. I'm being
4 perfectly fair to the witness. I'm asking her if
5 she's got a definition.

6 Q. (By Mr. Biersteker) Is there a
7 definition of "representative" that you employ as
8 an epidemiologist?

9 MR. MIKHAIL: Before you answer,
10 definition of what?

11 MR. BIERSTEKER: Of "representative."

12 MR. MIKHAIL: All right. Fine. You
13 can answer that. If you have an answer as an
14 epidemiologist of the word "representative." If
15 you do.

16 THE WITNESS: Is it like the rest of
17 the Country? Is that what you're asking?

18 Q. (By Mr. Biersteker) Well, no. What I'm
19 asking now is a different question.

20 A. Okay.

21 Q. Have you ever used the term
22 "representative" in your work as the State
23 Epidemiologist or in your studies of
24 epidemiology? Let me ask it better. Do you have
25 an understanding of the term "representative" as

1 it is used by epidemiologists?

2 A. I think so. But now that you're asking
3 me -- you asked me earlier if I thought it meant
4 average. Now that you're asking me, I can't think
5 of an accurate absolute definition. It probably
6 means to me average plus.

7 Q. Let me ask it this way: If you wanted
8 to obtain a sample of data that you could
9 extrapolate to the Nation as a whole on public
10 health variables such as the kind we've discussed
11 here in Exhibit 16, would you succeed if you took
12 a random sample of Mississippians?

13 A. Probably not.

14 Q. Is the converse also true? If you took
15 a representative sample of people in the United
16 States, would it accurately portray the experience
17 of Mississippians concerning public health
18 variables like those discussed in Exhibit 16?

19 A. Probably not.

20 MR. BIERSTEKER: Give me one minute. I
21 think I'm finished. I have no further questions.

22 MR. MIKHAIL: Does Kathleen have any?

23 MS. MULLERY: No, I don't have any.

24 MR. BIERSTEKER: You have none?

25 MR. MIKHAIL: I'm not going to ask any

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1 today. I will ask them at trial.

2 MR. BIERSTEKER: Okay. Well, thank
3 you. We're finished. You need not come tomorrow.

4 [OFF THE RECORD.]

5 MR. BIERSTEKER: Why don't we mark
6 these.

7 [EXHIBIT NOS. 17 THROUGH 24 WERE MARKED
8 AND MADE A PART OF THE RECORD.]

9 Q. (By Mr. Biersteker) Doctor, there were
10 some additional documents that you brought with
11 you to the deposition today that we had not
12 discussed during the course of your deposition,
13 and before we left, I just wanted to identify them
14 for the record. One of the documents that will
15 not be made an exhibit to the record is Vital
16 Statistics Mississippi 1995 from the Mississippi
17 Department of -- State Department of Health; is
18 that correct?

19 A. Yes.

20 MR. BIERSTEKER: Charles, do you know
21 if this document was produced to us? I imagine it
22 was.

23 MR. MIKHAIL: I'm sure it was. It
24 looks familiar to me.

25 MR. BIERSTEKER: If it has not been

1 produced, we will just give you a call.

2 MR. MIKHAIL: You won't give us a
3 call. You'll file a Motion to Compel.

4 THE WITNESS: I think they've got these
5 back to however long they've been produced.

6 Q. (By Mr. Biersteker) The remaining
7 documents have been marked with exhibit stickers,
8 and what I'd like to do is briefly go through them
9 and identify them on the record, if we may. The
10 first one is marked as Exhibit 17, Doctor. Could
11 you just describe what that document is for the
12 record, please?

13 A. It's age-adjusted mortality rates from
14 some specific causes by race and gender in
15 Mississippi from 1980 through 1995.

16 Q. And is this based on Vital Statistics
17 data?

18 A. Yes.

19 Q. The next exhibit is Exhibit 18. Could
20 you please state for the record what that exhibit
21 is.

22 A. Years of potential life lost before age
23 65 per 100,000 population by race and gender for
24 some selected causes of death in Mississippi
25 residents from 1980 through '95.

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1 Q. And is this also based on Vital
2 Statistics data?

3 A. Yes.

4 Q. How did you select the diseases to
5 include in Exhibits 17 and 18?

6 A. Dr. Thompson selected them.

7 Q. I see. Do you know on which basis he
8 selected them?

9 A. No.

10 Q. I see that at least on Exhibit 18 there
11 is some handwriting with some numbers -- Exhibit
12 18, Doctor.

13 A. Oh, sorry.

14 Q. There is some handwriting with some
15 numbers in the margins. Do you know what that
16 handwriting refers to?

17 A. I wrote it, but I don't know what it
18 means.

19 Q. All right. The data that I printed on
20 the exhibit are correct?

21 A. Yes. Oh, yes, these are not
22 corrections.

23 Q. That's what I was concerned about.

24 A. Yeah.

25 Q. The next document is a two-page document

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1 marked as Exhibit 19, if you can describe what
2 that is for the record, please.

3 A. It's mortality data from the Vital
4 Statistics Division of 1995 deaths for
5 Mississippians from some specific causes, by sex,
6 for 1995.

7 Q. Does this correspond -- do you know how
8 these were computed? Is this just raw numbers?

9 A. Right. It's just raw numbers from 1995.

10 Q. These are not attributable; these are
11 just total?

12 A. Right.

13 Q. What is the second page? Continuation
14 for additional diseases; is that right?

15 A. Actually, it's two of the same diseases
16 that are on the first page but broken down into
17 age groups.

18 Q. Why were those broken down into age
19 groups? Did it just come that way, or did you
20 request it?

21 A. I requested it because on the sheet of
22 handwritten paper where I did the basic
23 compilation and attributable risk applied to
24 numbers, there were different population and
25 attributable risk in the '89 Surgeon General's

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1 Reports by age group, so I asked for these pages.

2 Q. I see. In order to do the calculations,
3 you had to compare apples and apples?

4 A. Correct.

5 Q. All right. I hand you Exhibit 20, and
6 if you could describe for me what Exhibit 20
7 consists of, I'll appreciate it.

8 A. It's 1991 BRFSS data regarding current
9 smoking by demographics.

10 Q. Okay. And what is Exhibit 21?

11 A. The same thing for 1993.

12 Q. The --

13 A. BRFSS data.

14 Q. -- description of current smoking for
15 BRFSS for 1993?

16 A. Yes.

17 Q. By different demographic factors?

18 A. Right.

19 Q. I hand you Exhibit 22. What is that?

20 A. The same BRFSS data for 1994.

21 MR. BIERSTEKER: Did we inadvertently
22 mark two of the same thing?

23 MR. MIKHAIL: No. 22, 23.

24 MR. BIERSTEKER: I understand that, but
25 is 23 the same as 22?

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1 THE WITNESS: Yes.

2 MR. MIKHAIL: That's fine. We can drop
3 one.

4 MR. BIERSTEKER: My mistake.

5 THE WITNESS: We may be missing 1992,
6 however. I think you're right because it had the
7 ages smoking --

8 MR. MIKHAIL: Here's the letter.

9 [COMMENTS OFF THE RECORD.]

10 Q. (By Mr. Biersteker) Doctor, we've now
11 changed Exhibit 23. What is Exhibit 23 now?

12 A. 1992 smoking prevalence data from BRFSS.

13 Q. Summarized by different demographic
14 characteristics; is that right?

15 A. Yes.

16 Q. Now finally I hand you Exhibit 24.
17 Please describe what that is.

18 A. This is BRFSS data for 1995. Actually,
19 it's BRFSS data for 1991 through '95 by sex and
20 race.

21 Q. Is exhibit -- does Exhibit 24 reflect
22 the actual data upon which Exhibit 4 was based?

23 A. The first page of Exhibit 4, yes.

24 Q. Okay. Are the data for the subsequent
25 pages of Exhibit 4 summarized in any one exhibit,

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1 or do you have to go through the data in each of
2 the exhibits in order to compile it?

3 A. You have to go through each year.

4 MR. BIERSTEKER: Okay. Thank you very
5 much.

6 MR. MIKHAIL: Thank you.

7 [DEPOSITION CONCLUDED AT 4:50 P.M.]

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1 CERTIFICATE OF DEPONENT

2 I, MARY CURRIER, M.D., deponent in the
3 deposition taken in the herein styled and numbered
4 cause, certify that I have examined the foregoing
5 198 pages as to the correctness thereof, and that
6 after reading said pages, I find them to contain a
7 full and true transcript of the testimony as given
8 by me on November 12, 1996, in Jackson,
9 Mississippi.

10 Subject to those corrections listed
11 below, if any, I find the transcript to be the
12 correct testimony I gave at the aforestated time
13 and place.

14	Page	Line	Comments
15	-----	-----	-----
16	-----	-----	-----
17	-----	-----	-----
18	-----	-----	-----

19 This the _____ day of _____, 1996.

20 _____

21 MARY CURRIER, M.D.

22 State of Mississippi
23 County of _____

24 Subscribed and sworn to before me, this
25 the _____ day of _____, 1996.

My Commission Expires:

_____ NOTARY PUBLIC

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CERTIFICATE OF COURT REPORTER

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I, Rhonda K. Hall, Court Reporter and Notary Public in and for the County of Hinds, State of Mississippi, hereby certify that the foregoing 199 pages contain a true and correct transcript of the testimony of Mary Currier, M.D., as taken by me in the aforementioned matter at the time and place heretofore stated, as taken by stenotype and later reduced to typewritten form under my supervision by means of computer-aided transcription.

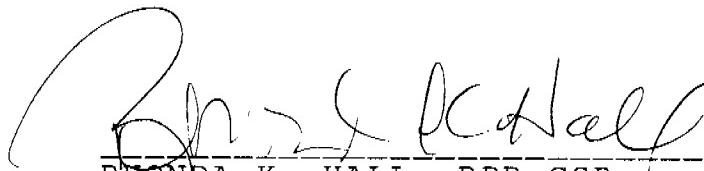
I further certify that under the

authority vested in me by the State of Mississippi that the witness was placed under oath by me to truthfully answer all questions in this matter.

I further certify that I am not in the employ of or related to any counsel or party in this matter and have no interest, monetary or otherwise, in the final outcome of this matter.

Witness my signature and seal this the

19th day of November, 1996.



RHONDA K. HALL, RPR-CSR

MS CSR NO. 1197

My Commission Expires: 8/25/98